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JVC I'ART PRO AV-48P787 USER MANUAL

Table of Contents

Important Safety Precautions
Important Safeguards
INSTALLATION
Caring for the Screen
Table of Contents
Unpacking your TV
TV Models
Rear Panel Diagram
front panel diagram
TV Remote Control

Getting Started
The Remote Control
Basic Operation
Connecting Your Devices
Coaxial Cables
S-Video Cable
vcr connection
coaxial cable
connecting to a camcorder
connecting to an external amplifier
connecting to a digital tv receiver
v1 smart input
The Interactive Plug In Menu
manual clock set
auto clock set
Auto Tuner Setup
Programming Your Remote Control
Cable Box or Satellite Codes
vcr codes
DVD Codes
search codes
Using the Guide
Onscreen Menu System
Noise Muting
Language
Front Panel Lock
V-Chip
US V-Chip Ratings
directions to set us v-chip ratings
setting us v-chip ratings
directions to set movie (mpaa) ratings
directions to set canadian v-chip ratings

unrated programs
Directions to Block Unrated Programs
Set Lock Code
Channel Guard Message
Closed Caption
Auto Setting
Manual Setting
Auto Shut Off
Software Version
Power Indicator
Auto Tuner Setup
Channel Summary
Find Channel
Digital Antenna Level
Digital-In Size
Digital-In1 Audio
Video Input Label
Picture Settings
Adjust Picture Settings
Color Temperature
Noise Reduction
Natural Cinema
Position Adjustment
Adjusting CRT Color Convergence
Reset
Sound Settings
Adjust Sound Settings
Optical Out
Turn On Volume

Volume Limit

Reset

Set Clock

On/Off Timer

Power

Number Buttons

Tune

Input

Channel

Volume

Return+/TV

Sound

Muting

Video Status

TheaterPro D6500K

Sleep Timer

Display

Aspect

Aspect Ratios

Favorite

ML/MTS

Menu

Back

Sub Channel

Guide

TV/CATV Slide Switch

VCR/DVD Slide Switch

VCR Buttons

DVD Buttons

Weak Signal

Other ManualsLib Projects

JVC

I'Art PRO

Color Television Users Guide

HDTV
HIGH-DEFINITION TELEVISION

For Models:

AV-48P777
AV-48P787
AV-56P777
AV-56P787

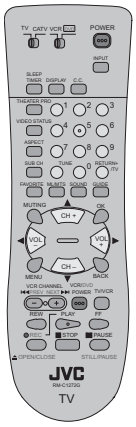


Illustration of AV-56P777 and RM-C1272G

Important Note:

In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Model Number: _____

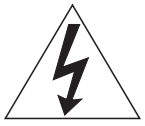
Serial Number: _____

LCT2121-001A-A
0606JGI-II-IM

Important Safety Precautions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don’t use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT RECYCLING INFORMATION

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: http://www.eiae.org

- As an “ENERGY STAR®” partner, JVC has determined that this product or product model meets the “ENERGY STAR®” guidelines for energy efficiency.

Important Safeguards

CAUTION:

Please read and retain for your safety.
Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But **improper use can result in potential electrical shock or fire hazards**. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Also follow all warnings and instructions marked on your TV set.

INSTALLATION

(POLARIZED-TYPE)

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other). This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

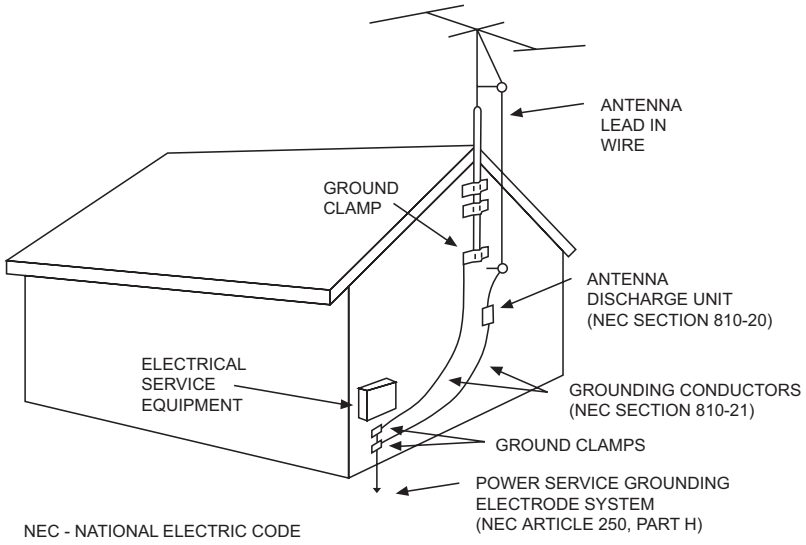
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL ELECTRICAL CODE



NEC - NATIONAL ELECTRIC CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released.

Therefore:

— Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.

— Never place a TV set in a “built-in” enclosure unless proper ventilation is provided.
— Never cover the openings with a cloth or other material.
— Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:

— Do not place a TV set on a sloping shelf unless properly secured.
— Use only a cart or stand recommended by the TV set manufacturer.
— Do not try to roll a cart with small casters across thresholds or deep pile carpets.
— Wall or shelf mounting should follow the manufacturer’s instructions, and should use a mounting kit approved by the manufacturer.

Use

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.

12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

PORTABLE CART WARNING

(Symbol provided by RETAC)

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

Service

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

A. When the power cord or plug is damaged or frayed.
B. If liquid has been spilled into the TV set.
C. If the TV set has been exposed to rain or water.
D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
E. If the TV set has been dropped or damaged in any way.
F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Warnings

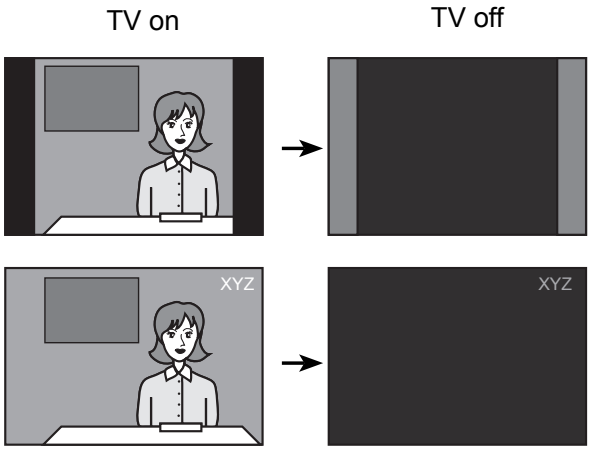
Screen Burn-in

Displaying fixed images on your screen for extended periods of time can leave a subtle but permanent ghost image in your screen. This is referred to as "burn-in". To avoid this, mix your viewing patterns and aspect modes from time to time.

Examples include, but are not limited to the following:

- Stock-market report bars
- Shopping channel logos and pricing displays
- Video game patterns or scoreboards
- Bright station logos
- Internet web sites or other computer-style images.
- DVD discs, video tapes, laser discs
- Broadcast, cable, satellite channels or digital television tuners/converters.
- Aspect modes that leave solid black bars on the top and bottom, or both sides of the screen.

For example...



Note: Warranty **DOES NOT** cover screen burn-in or uneven picture tube aging.

Caring for the Cabinet

Normally, light dusting with a soft, non-scratching duster will keep your TV clean.

If you wish to wipe down the television, first unplug it. Then wipe gently with a soft cloth, slightly moistened with water. You can add a few drops of mild liquid detergent to the water to help remove spots of oily dirt.

- DO NOT allow liquid to enter the TV through the ventilation slots.
- DO NOT use strong or abrasive cleaners on the TV.
- DO NOT spray liquids or cleaners directly on the TV's surface.
- DO NOT rub or scrub the TV harshly. Wipe the set gently with a soft cloth.

Caring for the Screen

The screen is treated with an electrostatic-proof coating. When it gets dirty, wipe it gently with a soft cloth. If the screen is very dirty, wipe it down with a cloth dipped in a diluted kitchen cleaner and thoroughly wrung-out. Then wipe immediately after with a clean, dry cloth.

Do not apply alcohol, organic solvents (like acetone), acidic or alkaline cleansers to the screen. These will remove the coating layer and cause discolorations.

Do not push or hit the screen. This could cause scratches on the screen surface and image distortions.

Table of Contents

Quick Setup 8
Unpacking your TV 8
TV Models 9
TV Remote Control 11
Getting Started 12
The Remote Control 12
Connecting Your Devices 13
Interactive Plug In Menu 21
Programming your remote 24

Onscreen Menus 28
Using the Guide 28
Onscreen Menu System 29

Initial Setup 31
Noise Muting 31
Language 31
Front Panel Lock 31
V-Chip 32
Closed Caption 39
Auto Shut Off 41
Software Version 41
Power Indicator 41

Tuner Setup 42
Auto Tuner Setup 42
Channel Summary 42
Find Channel 44
Digital Antenna Level 44

External Input 45
Digital-In Size 45
Digital-In1 Audio 45
Video Input Label 46

Picture Adjust 47
Picture Settings 47
Adjust Picture Settings 47
Color Temperature 47
Noise Reduction 48
Natural Cinema 48
Position Adjustment 49
Convergence 50
Reset 51

Sound Adjust 52
Sound Settings 52
Adjust Sound Settings 52
Optical Out 52
Turn On Volume 53
Volume Limit 53
Reset 53

Clock Timers 54
Set Clock 54
On/Off Timer 55

Button Functions 56
Power 56
Number Buttons 56
Tune 56
Input 56
Channel +/- 56
Volume +/- 56
Return+/TV 57
Sound 57
Muting 57
Video Status 58
TheaterPro D6500K 58
Sleep Timer 58
Display 59
C.C. 59
Aspect 60
Aspect Ratios 60
Favorite 62
ML/MTS 63
Menu 63
OK 63
Back 63
Sub Channel 64
Guide 64
TV/CATV Slide Switch 65
VCR/DVD Slide Switch 65
VCR Buttons 65
DVD Buttons 65

Troubleshooting 66
OSD Information 67
Specifications 68
Warranty 69
Authorized Service Centers . . 70
Notes 71

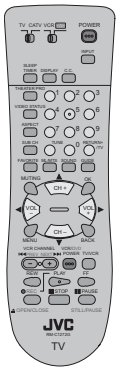
Quick Setup

Unpacking your TV

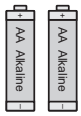
Thank you for your purchase of a JVC Color Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:

1 Television

1 Remote Control



Two AA Batteries



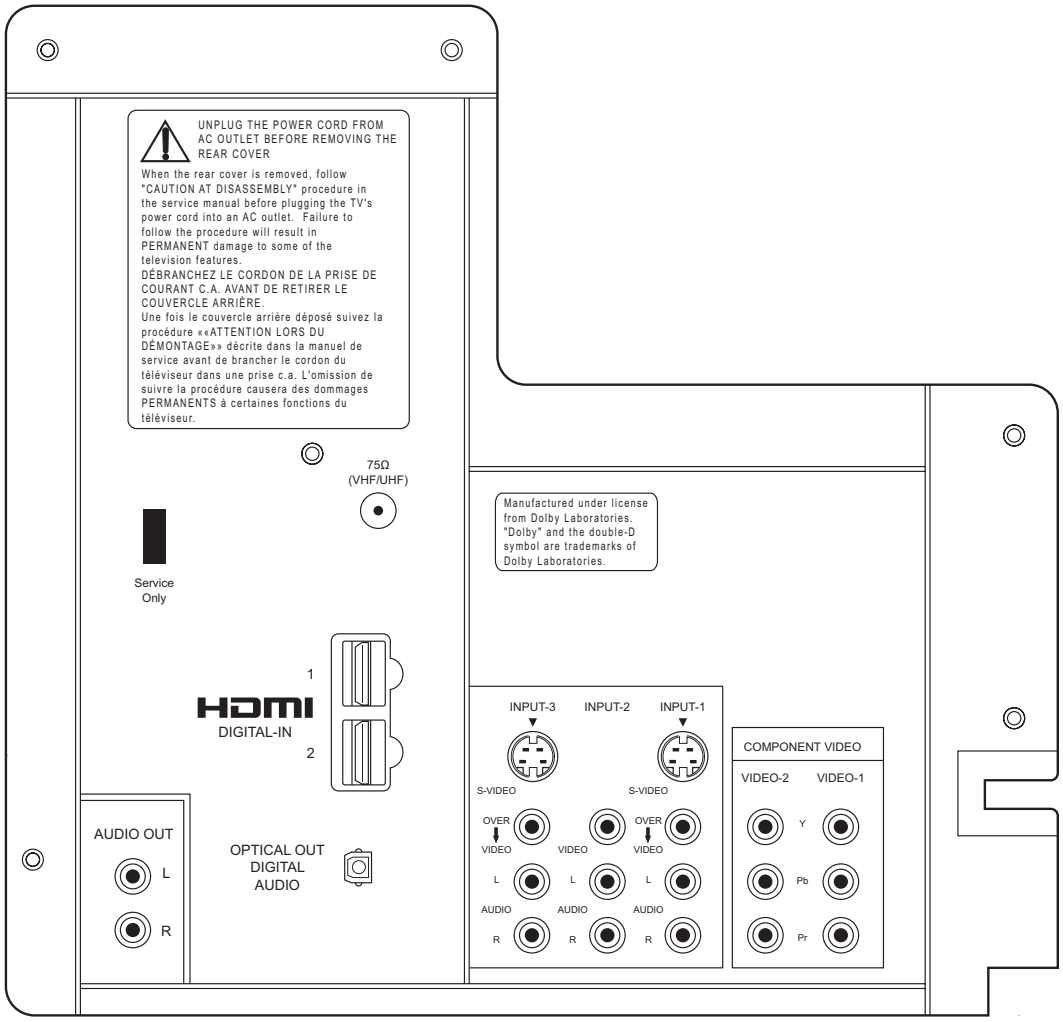
Note: Your television and/or remote control may differ from the examples illustrated here.

We recommend that before you start using your new television, you read your entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

TV Models

Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

Rear panel diagram

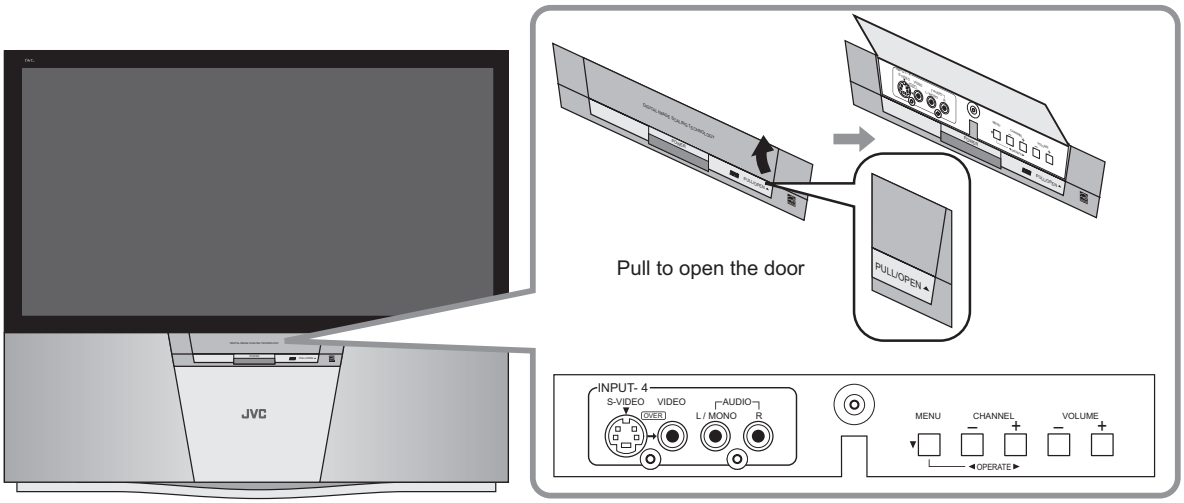

UNPLUG THE POWER CORD FROM AC OUTLET BEFORE REMOVING THE REAR COVER
When the rear cover is removed, follow "CAUTION AT DISASSEMBLY" procedure in the service manual before plugging the TV's power cord into an AC outlet. Failure to follow the procedure will result in PERMANENT damage to some of the television features.
DÉBRANCHEZ LE CORDON DE LA PRISE DE COURANT C.A. AVANT DE RETIRER LE COUVERCLE ARRIÈRE.
Une fois le couvercle arrière déposé suivez la procédure ««ATTENTION LORS DU DÉMONTAGE»» décrite dans la manuel de service avant de brancher le cordon du téléviseur dans une prise c.a. L'omission de suivre la procédure causera des dommages PERMANENTS à certaines fonctions du téléviseur.
75Ω (VHF/UHF)
Service Only
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
1
HDMI
DIGITAL-IN
2
AUDIO OUT
L
R
OPTICAL OUT DIGITAL AUDIO
INPUT-3
INPUT-2
INPUT-1
S-VIDEO
S-VIDEO
OVER VIDEO
VIDEO
OVER VIDEO
L
L
L
AUDIO
AUDIO
AUDIO
R
R
R
COMPONENT VIDEO
VIDEO-2
VIDEO-1
Y
Pb
Pr

Notes:

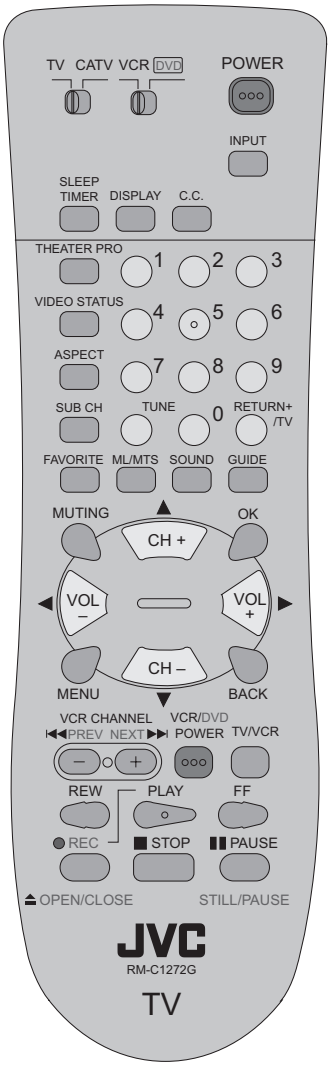
- The terminal labeled "SERVICE ONLY", is exclusively used to update the software version.

Quick Setup

Front panel diagram



Remote Control



RM-C1272G

• For information on remote control buttons, see pages 56 - 65.

Quick Setup

Getting Started

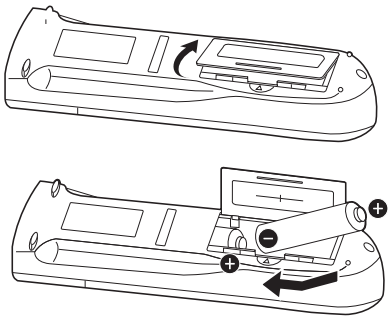
These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away. If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

Step 1 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

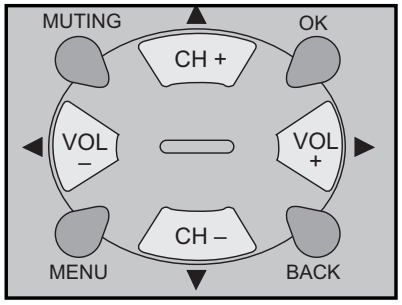
Lift and pull the latch on the back of the remote control to open. Insert two batteries (included) carefully noting the "+" and "–" markings, placing the "–" end in the unit first. Snap the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your VCR, DVD, and/or cable box/satellite receiver may have to be reset. See pages 24 - 27.



Key Feature Buttons

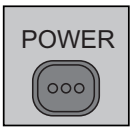
The four key feature buttons at the center of the remote can be used for basic operation of the television. The top and bottom buttons will scan forward and back through the available channels. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH–. The channels will zip by at a rate of five channels per second. The right and left buttons will turn the volume up or down. These buttons are also marked with four arrows and are used with JVC's onscreen menu system. To use the onscreen menus, press the MENU button.

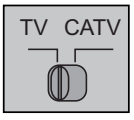


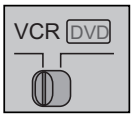
Basic Operation

Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box.
- Slide the VCR/DVD selector switch to VCR to control a VCR. Slide to DVD to control a DVD player. Please see pages 24 to 27 for instructions on programming your remote control to operate a cable box, VCR or DVD player.







Step 2 – Connecting Your Devices

To make these connections, you will use plugs like the ones illustrated below.

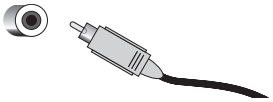
Coaxial Cables

Used to connect an external antenna or cable TV system to your TV.

S-Video Cable

Used to make video connections with S-Video VCRs, Camcorders and DVD players.

Component Cables
Composite Cables
Audio Cables

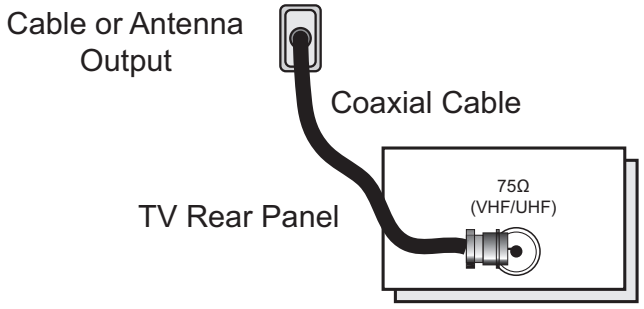


Used to connect audio/video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

Notes:

- These connections are examples.
- After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.
- If you follow these diagrams and the television does not work properly, contact your local cable operator.
- To connect a DVD player, see VCR Connection. A DVD player is optional
- If you have a satellite television system, refer to the satellite TV manual.

No VCR Connection



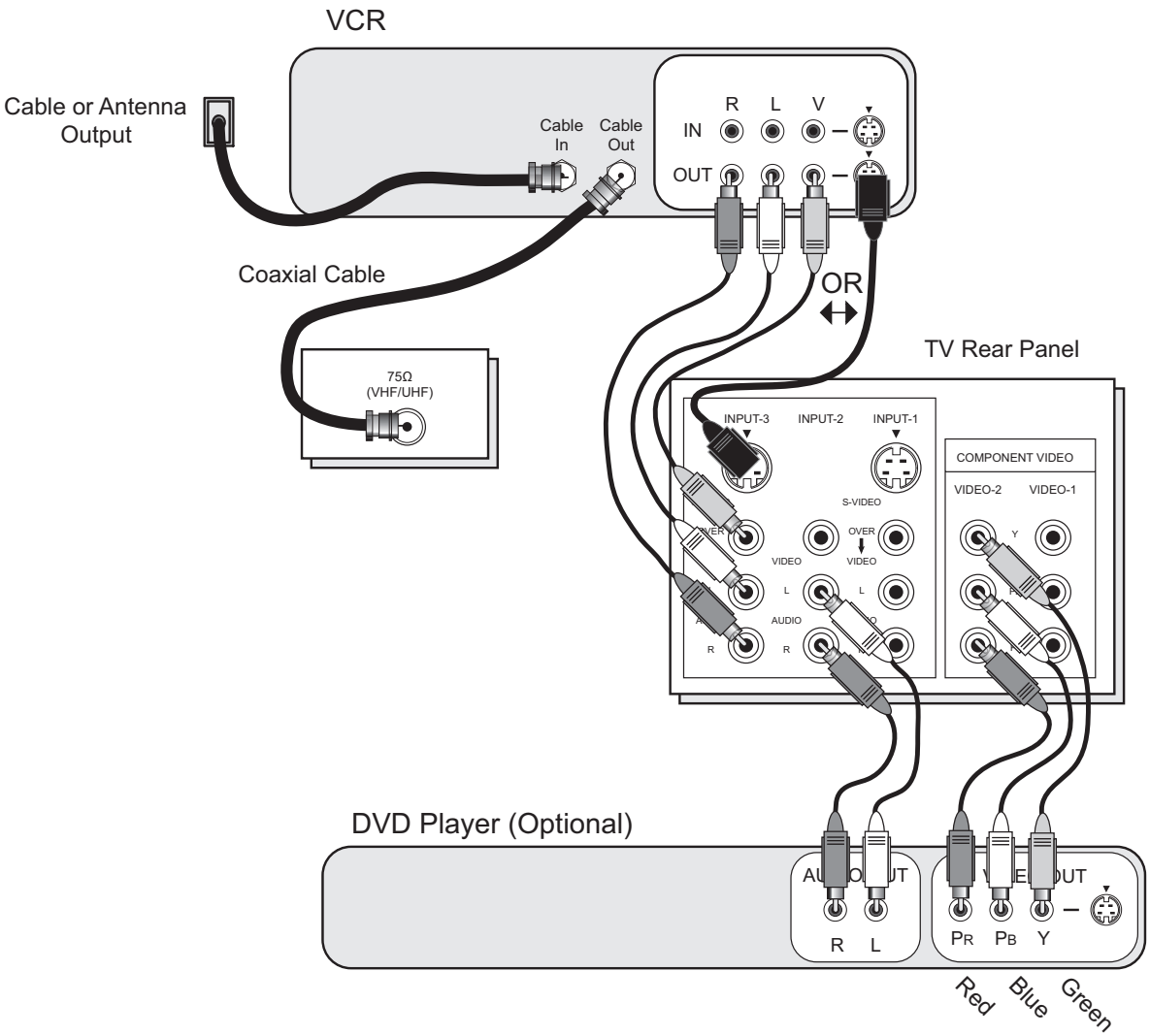
Quick Setup

VCR Connection

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- You may also connect the DVD player to Input 1.

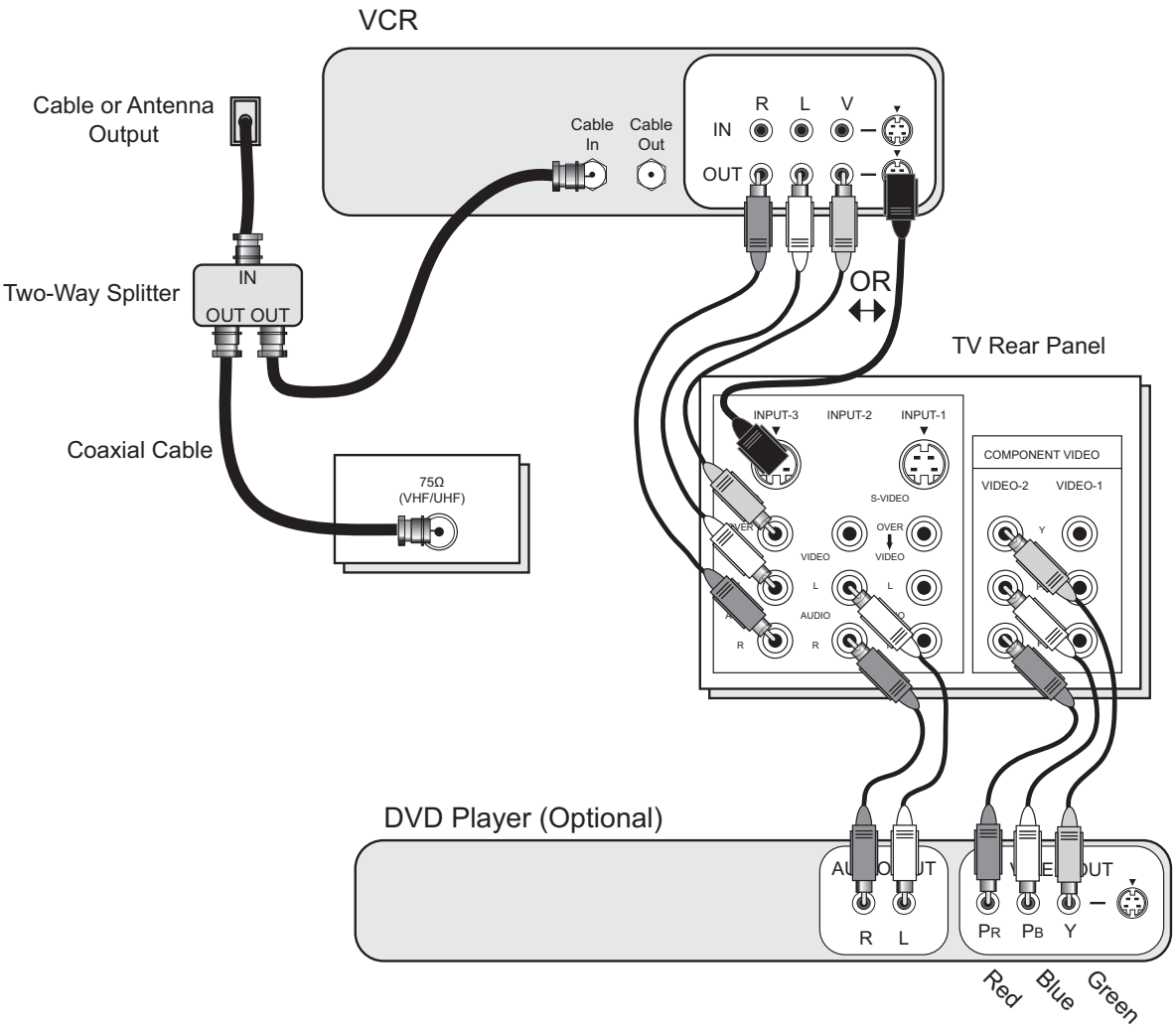
Diagram #1



Note:

- If this connection setup does not work for you, try the connection setup on page 15.

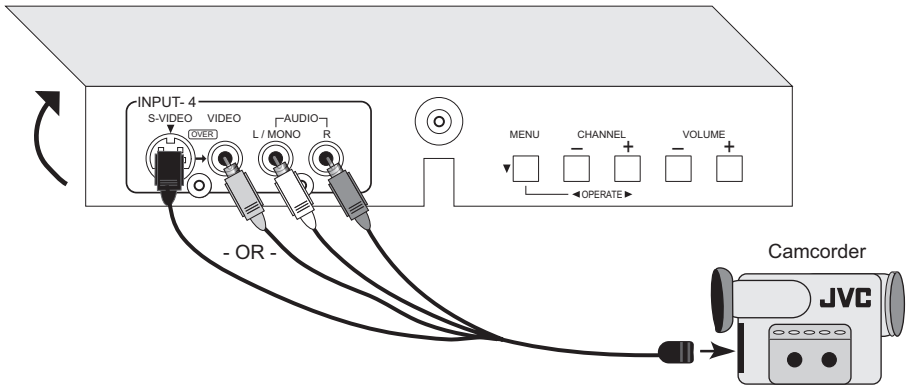
Diagram #2


VCR
Cable or Antenna Output
Cable In
Cable Out
R L V
IN
OUT
Two-Way Splitter
IN
OUT OUT
OR
TV Rear Panel
Coaxial Cable
75Ω (VHF/UHF)
INPUT-3
INPUT-2
INPUT-1
S-VIDEO
COMPONENT VIDEO
VIDEO-2
VIDEO-1
VIDEO
AUDIO
DVD Player (Optional)
R L
PR PB Y
Red
Blue
Green

Quick Setup

Connecting to a Camcorder

You may connect a camcorder, game console or other equipment to your television by using the side input jacks (Input 4) located on the side of the television. You can also connect these using the television's rear input jacks, using the same instructions.

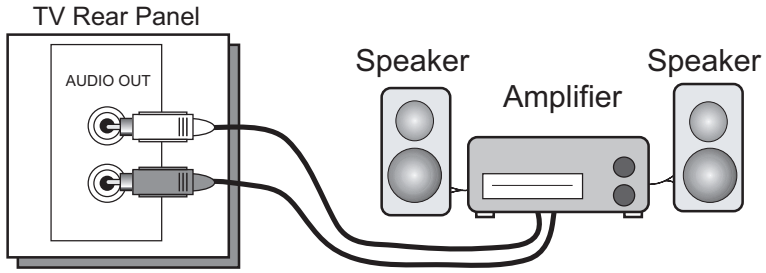


1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the front of the TV, OR connect an S-Video cable from the camcorder to the back of the TV.
2) Connect a white composite cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the front of the TV.
3) Connect a red composite cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the front of the TV.

Note:

- If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the LEFT AUDIO IN.

Connecting to an External Amplifier



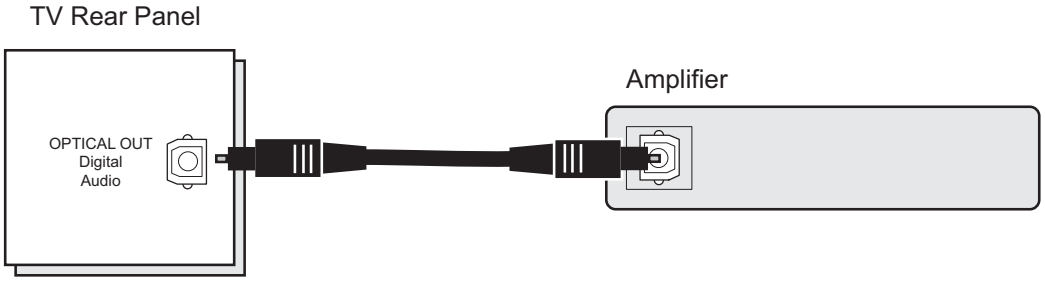
1) Connect a white composite cable from the LEFT AUDIO OUTPUT on the back of the TV to the LEFT AUDIO INPUT on the amplifier.
2) Connect a red composite cable from the RIGHT AUDIO OUTPUT on the back of the TV to the RIGHT AUDIO INPUT on the amplifier.

Notes:

- Refer to your amplifier's manual for more information.
- You can use AUDIO OUTPUT for your home theater system.

Connecting to an amplifier using your optical output

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output.



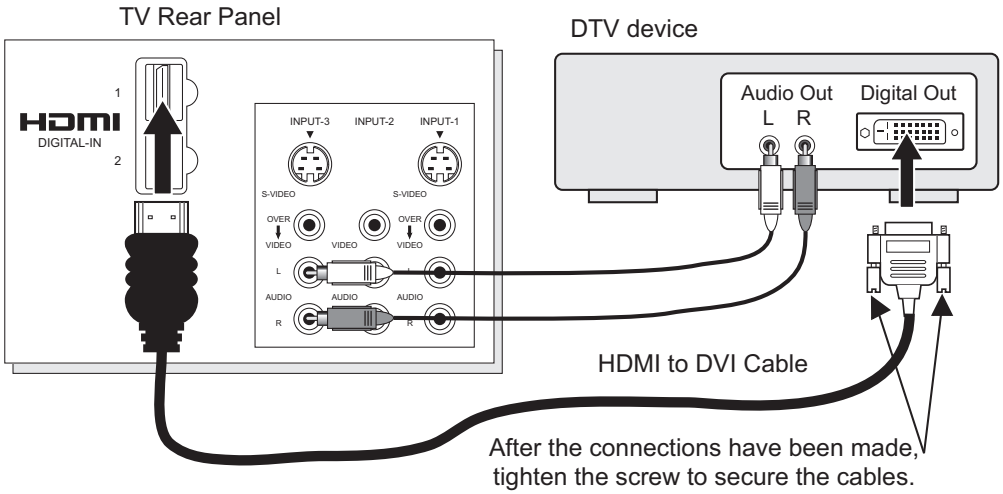
1) Connect the optical cable from the back of the TV to the back of the amplifier.

Notes:

- In order to use the optical output connection, select "PCM" or "DOLBY DIGITAL" on "Optical Out" in Sound Adjust. See page 52.
- You can not output audio using the OPTICAL OUTPUT when you have digital sound from an HDMI device connected to the HDMI 1 or HDMI 2 connection on the back of your TV. (See page 19).
- Refer to your owners manual on using your amplifier.

Connecting to a Digital TV Receiver

By connecting a Digital TV Receiver, high definition pictures can be displayed on your TV in their digital form.



1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder, to the DIGITAL-IN 1 on the back of your television.
2) Connect a red cable from the DTV decoder RIGHT AUDIO OUT, to the RIGHT AUDIO INPUT "INPUT-3" on the back of your television.
3) Connect a white cable from the DTV decoder LEFT AUDIO OUT, to the LEFT AUDIO INPUT "INPUT-3" on the back of your television.

- The digital-in terminal is not compatible with the picture signal of a personal computer.
- Use a HDMI to DVI cable (commercially available) in order to digitally connect the television with a DTV decoder.

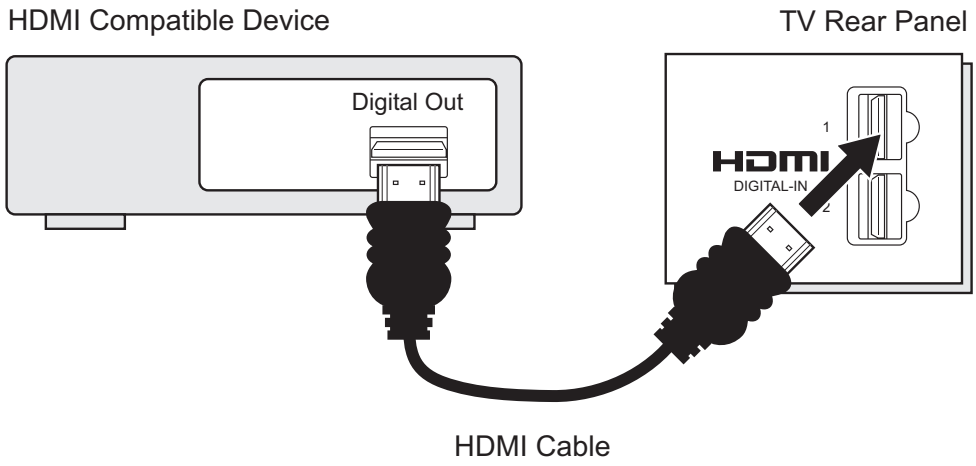
Notes:

- If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted. Access the “Digital-In Size” in the External Input menu to adjust it. (Refer to page 45.)
- When you do the above connection, set "Digital-In1 Audio" in the External Input menu to ANALOG. See "Digital-In1 Audio", page 45.
- The Analog Audio input can only be used with the HDMI 1 input.
- When setting the “DIGITAL AUDIO – ANALOG / DIGITAL” menu setting on the TV, please note that this setting only effects the HDMI 1 jack and that if you use a DVI to HDMI adapter this connection must be made to the HDMI 1 along with analog audio cables.

Connecting to an HDMI Compatible Device

By connecting an HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or any HDMI compatible devices.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).



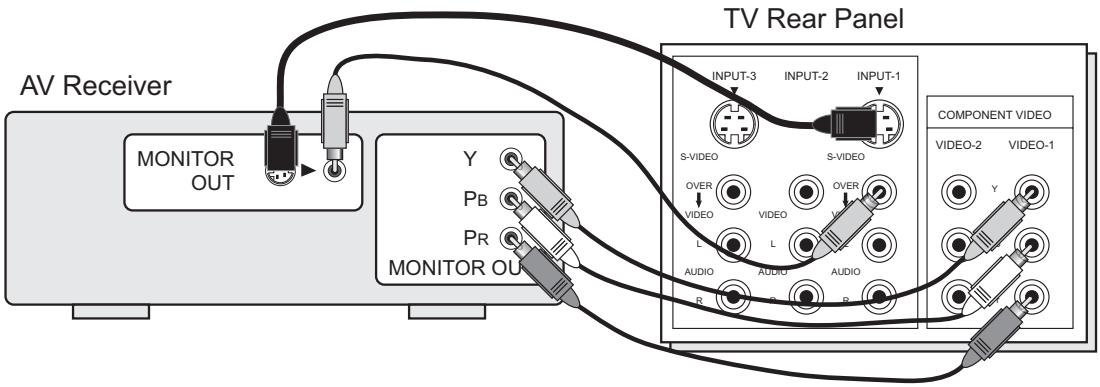
1) Connect the HDMI Cable from the DIGITAL OUT on the back of your DTV or HDMI device, to the DIGITAL-IN on the back of your television.

Notes:

- When you do the above connection, set "Digital-In1 Audio" in the External Input menu to DIGITAL. See "Digital-In1 Audio", page 45.
- Some decoders may not respond depending on the equipment that you have connected when it is connected to the HDMI.
- If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

Connecting to an AV Receiver using your television's V1 Smart Input

By connecting your AV Receiver to your television's V1 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV. This allows you to free up the other input connections so you can connect more devices to your television.



1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT, to the S-Video INPUT-1 on the back of your television.
2) Connect a Yellow Composite Cable from the AV Receiver's MONITOR OUT, into the VIDEO INPUT-1 on the back of your television.
3) Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT, into the Y VIDEO INPUT-1 on the back of your television.
4) Connect a Blue Component Cable from the AV Receiver's P_B MONITOR OUT, into the Pb VIDEO INPUT-1 on the back of your television.
5) Connect a Red Component Cable from the AV Receiver's P_R MONITOR OUT, into the Pr VIDEO INPUT-1 on the back of your television.

Note:

- Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
- Use your AV Receiver's remote to switch to the different devices you have connected.
- Some AV Receivers may not respond when the V1 Smart Input function is turned on.
- If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V1 Input as the V1 Smart Input. In this case we recommend using the S-Video connection.

Step 3 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "Auto" or "Manual" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

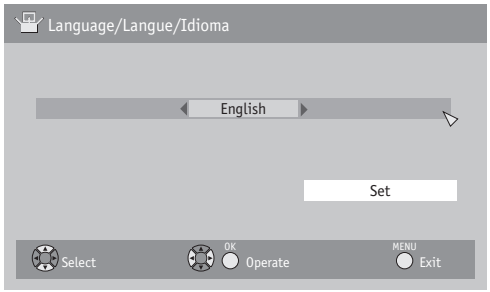
We recommend you complete the interactive plug-in items before you start using your television.

Note:

- If you press the MENU button while setting up the interactive plug-in menu, it will skip over it.

Language

After the "JVC Interactive Plug-in Menu" has been displayed, the TV automatically switches to the "Language" settings. You can choose to view your onscreen menus in three languages: English, French or Spanish.



◀▶ To choose a language:
(English, Français or Español.)

▼ To "Set"

Press the OK button

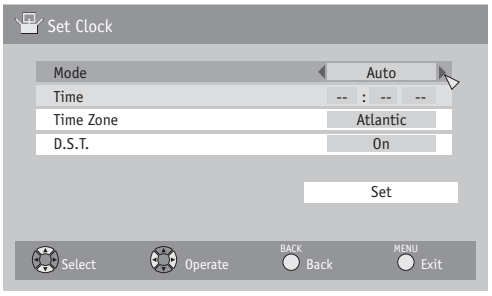
Once you press OK, you will move to the "Set Clock" Plug-In Menu automatically.

(To be continued...)

Quick Setup

Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:



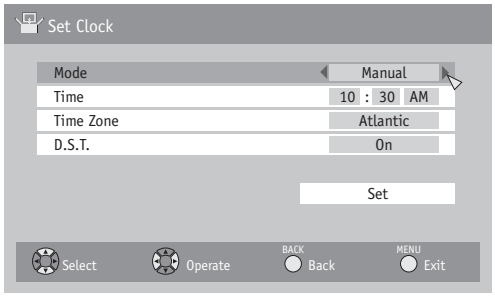
◀▶ To choose "Auto"
▼ To "Time Zone"
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To move to "D.S.T." (Daylight Savings Time)
◀▶ To turn "On or Off"
▼ To "set"
Press the OK button
Once you press OK, you will move to the "Auto Tuner Setup" Plug-In Menu automatically.

Notes:

- D.S.T. can be used when it is set to "On" in the "Set Clock" menu.
- Only when the "Mode" is set to "Auto", the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose "Manual". If you choose "Auto", see auto clock set above.



◀▶ To choose "Manual"
▼ To "Time"
◀▶ To set the hour
▼ To minute
◀▶ To set the minute
▼ To "Time Zone"
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To move to "D.S.T." (Daylight Savings Time)
◀▶ To turn "On or Off"
▼ To "Set"
Press the OK button
Once you press OK, you will move to the "Auto Tuner Setup" Plug-In Menu automatically.

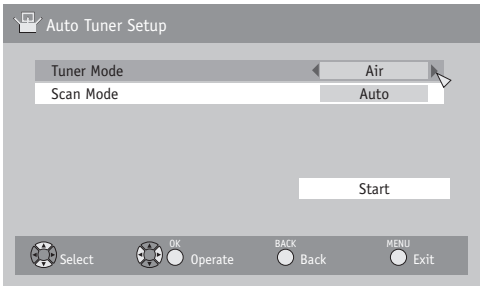
Note:

- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

(To be continued...)

Auto Tuner Setup

In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/– buttons) you will receive only clear, active channels.



◀▶ To choose "Cable or "Air" (or "Skip" when you skip "Auto Tuner Setup")

▲▼ To Scan Mode
◀▶ To choose Auto, STD, HRC or IRC

▼ To "Start"

Press the OK button

When the setup is finished, "Thank you ! Setup is now complete." is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- If you want to cancel the Auto Tuner Setup, press the MENU button.
- If you choose "Skip", it finished without doing the Auto Tuner Setup.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.

Quick Setup

Programming your remote control

You can program your remote to operate your cable box, satellite receiver, VCR or DVD player by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite Codes

The remote control is programmed with cable box and satellite codes for power on/off, channel up/down, and 10 key operation.

1) Find the cable box or satellite brand from the list of codes shown below.
2) Slide the 2-way selector switch to “CATV”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the cable box/satellite receiver.

- If your cable or satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the search codes function, on page 27.

Cable Box	CODES
ABC	024
Archer	032, 025
Cableview	051, 032
Citizen	022, 051
Curtis	058, 059
Diamond	024, 032, 025
Eagle	029
Eastern	034
GC Brand	032, 051
Gemini	022, 043
General Instrument	065, 024, 025, 026, 027, 020, 021, 022, 057, 023
Hamlin	040, 041, 042, 045, 058, 064
Hitachi	049, 024
Jerrold	065, 024, 025, 026, 027, 020, 021, 022, 057, 023
Macom	049, 050, 051, 054
Magnavox	033
Memorex	030
Movietime	032, 051
Oak	039, 037, 048
Panasonic	055, 056, 060, 071, 073
Paragon	063
Philips	028, 029, 030, 052, 053, 031, 069
Pioneer	047, 062
Pulsar	051, 032

Cable Box	CODES
Puser	032
RCA	061, 070
Realistic	032
Regal	058, 064, 040, 041, 042, 045, 068
Regency	034
Rembrandt	037, 032, 051, 038
Samsung	051
Scientific Atlanta	057, 058, 059
SLMark	051, 047
Sprucer	051, 056
Stargate	032, 051
Telecaption	067
Teleview	047, 051
Texscan	044
Tocom	035, 036, 066
Toshiba	050
Unika	032, 025
Universal	022, 032
Videoway	052
Viewstar	029, 030
Zenith	063, 046
Zenith/Drake Satellite	046

Digital Satellite Systems	CODES
Echostar	100, 113, 114, 115
Express VU	100, 113
G.E.	106
G.I.	108
Gradiente	112
Hitachi	104, 111
HNS (Hughes)	104
Panasonic	105
Philips	102, 103
Primestar	108
Proscan	106, 109, 110
RCA	106, 109, 110
Sony	107
Star Choice	104, 108
Toshiba	101
Uniden	102, 103

VCR Codes

The remote control is programmed with VCR codes for power on/off, play, stop, fast-forward, rewind, pause, record, channel up/down operation.

1) Find the VCR brand from the list of codes shown below.
2) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “VCR”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the VCR.

- If your VCR does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 27.
- After you program your remote, some VCR buttons may not work properly. If so, use the VCR’s remote.
- To record, hold down the REC button on the remote and press PLAY.

VCRs	CODES
Admiral	035
Aiwa	027, 032, 095
Akai	029, 072, 073, 074
Audio Dynamic	003, 005
Bell & Howell	063, 071
Broksonic	020, 026, 094
Canon	023, 025
CCE	043
Citizen	064
Craig	063, 029, 064
Curtis Mathes	045, 024, 027, 093
Daewoo	043, 059, 024, 092
DBX	003, 004, 005
Dimensia	045, 093
Emerson	043, 026, 077, 061, 025, 042, 020, 076
Fisher	063, 066, 067, 065, 071, 091
Funai	027, 026, 020, 000
G.E.	033, 045, 024
Go Video	037, 051, 049, 050, 089
Goldstar	064
Gradiente	083, 084, 081, 000, 001
Hitachi	023, 045, 058, 027, 081, 093
Instant Replay	024, 023
Jensen	003
JVC	000, 001, 002, 003, 004, 005
Kenwood	003, 004, 064, 005
LXI	027, 064, 058, 065, 066, 063, 067
Magnavox	031, 023, 024, 086

VCRs	CODES
Marantz	003, 004, 005
Marta	064
Memorex	024, 067
MGA	038, 040, 047, 048, 041, 042
Minolta	058, 045, 093
Mitsubishi	038, 040, 047, 048, 041, 042, 078, 090
Multitech	047, 027, 062
NEC	003, 004, 005, 000
Olympic	024, 023
Optimus	028, 021, 035, 064
Orion	026, 020
Panasonic	023, 024, 021, 022
Penney	024, 058, 045, 063, 003, 004, 005, 093
Pentax	058, 005, 045, 093
Philco	031, 024, 027, 023, 026, 020, 043
Philips	031, 023, 024, 086
Pioneer	023
Proscan	045, 058, 023, 024, 031, 046, 059, 060, 033, 087, 093
Quasar	021, 022, 023, 024
Radio Shack	033, 024, 063, 036, 067, 040, 027
RCA	033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 084, 085, 087, 093
Realistic	024, 063, 036, 067, 040, 027

VCRs	CODES
Samsung	037, 060, 062, 033, 089
Samtron	089
Sansui	003, 026, 020, 052
Sanyo	063, 067, 091, 071
Scott	059, 060, 062, 067, 038, 040, 047, 048, 026, 020
Sears	063, 064, 065, 066, 058, 000, 001
Shintom	075
Sharp	035, 036, 080, 088
Signature 2000	027, 035
Singer	075
Sony	028, 029, 030, 053, 054, 055
SV 2000	027
Sylvania	031, 023, 024, 027
Symphonic	027, 081
Tashiro	064
Tatung	003, 004, 005
Teac	003, 004, 027, 005
Technics	021, 022, 023, 024
Teknika	024, 027, 070
Toshiba	059, 046, 079
Vector Research	005
Wards	035, 036, 067, 044, 064
Yamaha	063, 003, 004, 005
Zenith	044, 082, 064, 094

Quick Setup

DVD Codes

The remote control is programmed with DVD codes for power on/off, play, stop, fast-forward, rewind, previous/next chapter, tray open/close, and still/pause operation.

1) Find the DVD player brand from the list of codes shown below.
2) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “DVD”.
3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
4) Release the DISPLAY button, and confirm the operation of the DVD player.

- If your DVD player does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 27.
- After you program your remote, some DVD buttons may not work properly. If so, use the DVD player’s remote.

DVD Player	CODES	DVD Player	CODES
Aiwa	043	RCA	021, 026
Apex	040	Sampo	034
Denon	020, 037	Samsung	030
Hitachi	030, 031	Sharp	028
JVC	000	Silvania	038
Kenwood	035	Sony	024, 045, 046, 047
Konka	039		
Mitsubishi	025	Technics	020
Onkyo	041	Toshiba	023
Oritron	044	Vialta	050
Panasonic	020	Wave	042
Philips	023, 036	Yamaha	020
Pioneer	022	Zenith	027, 032
Raite	033		

Search Codes

Cable/Satellite Search Codes Function

1) Slide the first 2-Way Mode Selector switch to CATV.
2) Press the POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
3) Press the POWER button on the remote, and see if the cable or satellite box responds.
4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times without a response, use the remote control that came with your equipment.
5) Press RETURN+/TV to exit.

VCR/DVD Search Codes Function

1) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “VCR” or “DVD”.
2) Press the VCR or DVD POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
3) Press the VCR or DVD POWER button, and see if the VCR or DVD responds.
4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times for the VCR (40 times for the DVD player), and there is no response, use the remote control that came with your equipment.
5) Press RETURN+/TV to exit.

Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

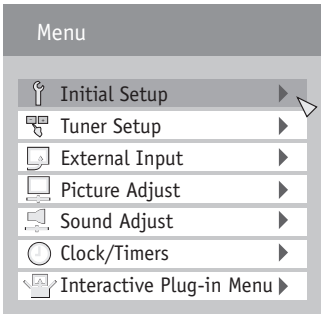
▲▼ Up and Down arrows mean press the CH+ or CH– buttons. Pressing the CH+ or CH– buttons let you:
- Move vertically in a main menu screen
- Move through a submenu screen
- Move to the next letter, number, or other choice in a submenu
- Back up to correct an error
- Scan through TV channels (when not in a menu screen)

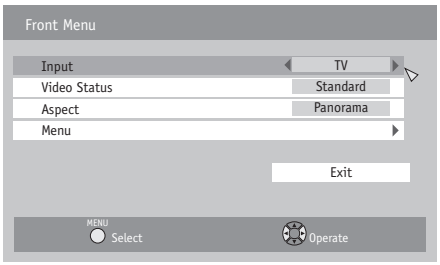
◀▶ Left and right arrows mean press the VOLUME+ or VOLUME– buttons to move left or right to:
- Select a highlighted menu item
- Select an item in a submenu
- Select numbers in certain menu options
- Turn the volume up or down (when not in a menu screen)

The “press button” icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)

The “helping arrow” icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The following (left) main menu will appear. The item that appears in green is the one currently selected. If you use the MENU button on the TV’s front panel instead of the remote, Front Menu screen showing "Input", "Video Status", "Aspect" and "Menu" will appear (following right screen). The “Interactive Plug-in Menu” will appear the first time the TV is plugged in.





Note:

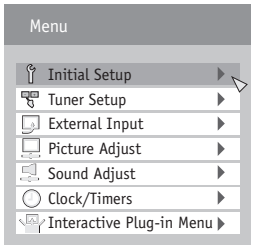
- Menus shown in this book are illustrations, not exact replications of the television’s onscreen displays.

Onscreen Menus

The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. All menus are navigated from the Main Menu at first. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 21 - 23.

1. To open the onscreen menu system, press the MENU button on the remote control. The main menu will appear



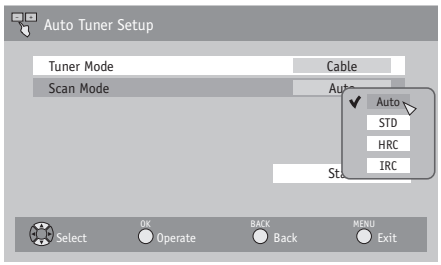
2. To select a menu from the main menu, use the ▲▼ arrows and enter by using the ◀▶ arrows or OK button.

The selected feature and option on a menu screen are highlighted in a different color.
To move to a different feature, use the ▲▼ arrows to move up and down the list.

3. There are two methods to select an option in a menu, after selecting a menu using the ▲▼ arrows.

1) Use the ◀▶ arrows to select an option from the highlighted feature. (In this guide, we discuss this method).

2) Press the OK button. The right onscreen will appear. Use the ▲▼ arrows to select an option from the box and press the OK button.



• To go back to the previous screen, press the BACK button.

4. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

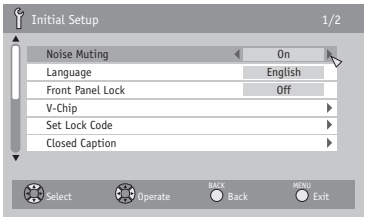
Each menu and its features will be discussed in the following pages of this guide.

Notes:

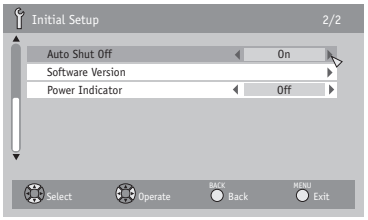
- If you do not press any buttons for a few seconds, the onscreen menu will automatically shut off.
- Button names in this guide are shown in SMALL CAPITAL LETTERS.
- Menus may appear in different sizes onscreen depending on the aspect ratio selected.
- Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected.

Onscreen Menus

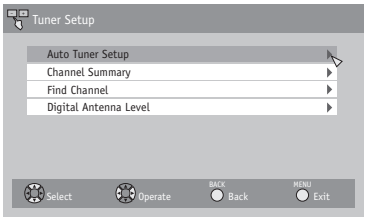
From the Main Menu...



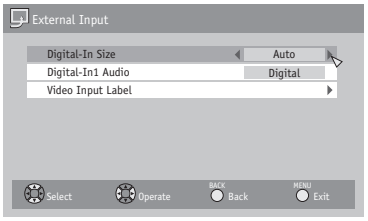
Initial Setup 1/2



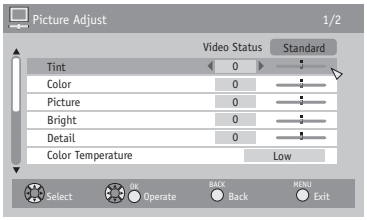
Initial Setup 2/2



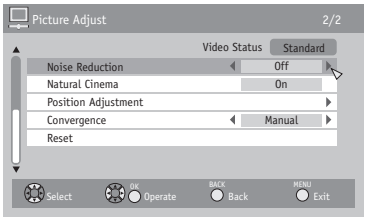
Tuner Setup



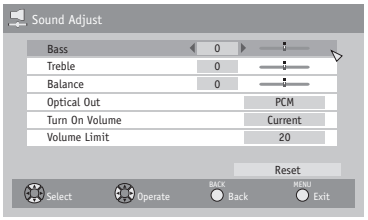
External Input



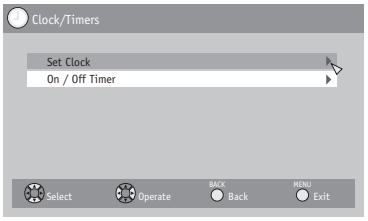
Picture Adjust 1/2



Picture Adjust 2/2



Sound Adjust



Clock/Timers

Notes:

- The "Digital-In Size" menu can only be displayed when a 480p picture signal is input to the digital-in terminal and the picture is being displayed on the screen.
- For the Interactive Plug-In Menu, see page 21 -23.
- Digital Antenna Level appears only when a digital channel is displayed.

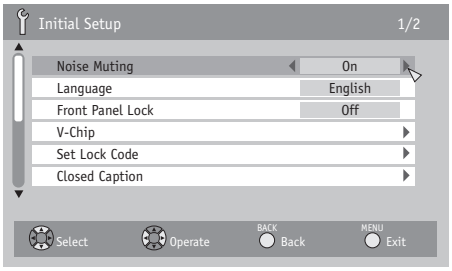
Initial Setup

Noise Muting

This feature inserts a blank black screen over channels which are not broadcasting or are too weak to be received clearly.

Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Noise Muting"
◀▶ To turn "On" or "Off"
Press the MENU button when finished



Note:

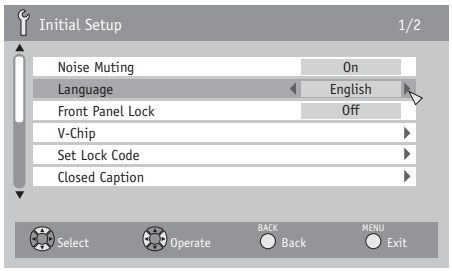
- Noise muting will not work when you operate channel summary.

Language

The language function is described on page 21 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.

Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Language"
◀▶ To choose a language: English, French or Spanish
Press the MENU button when finished

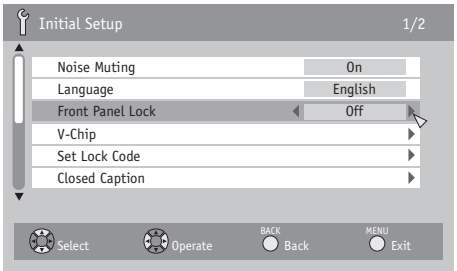


Front Panel Lock

This allows you to lock the keys on the front of the TV, so that a child may not accidentally change your viewing preferences.

Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Front Panel Lock"
◀▶ To turn "On" or "Off"
Press the MENU button when finished



You can turn off this feature in the following ways:

- Unplug the power cord, and plug it back in. Do this if your batteries die, or you lose your remote control.
- Use the remote control.
- Press the MENU button on the front of the TV for more than 3 seconds. In this case, the OSD for "Front Panel Lock" will appear.

Note:

- To turn ON/OFF the TV, press the POWER button for more than 3 seconds. This feature will remain ON.

Initial Setup

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from a DVD discs, VCR tapes or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 37 for information on how to block unrated programs.

Note (for Canadian viewers): The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:

Press the MENU button

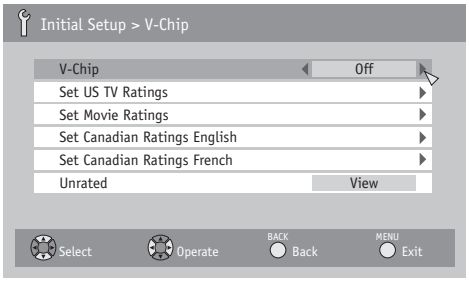
▲▼ To "Initial Setup"

◀▶ To enter

▲▼ To "V-Chip"

◀▶ To operate (Password input screen will appear)

Enter the password by using the 10 button keypad



The V-Chip main screen will appear when the password is correct.

◀▶ To turn V-Chip "On" or "Off" (V-Chip must be turned "On" for rating settings to operate)

▲▼ To move to V-Chip menu (see following pages for descriptions of each item)

Notes:

- If you input the wrong password, go back to the initial Setup Menu.
- To set the password, see "Set Lock Code", page 38.
- "Advanced V-Chip Rating" and "Advanced Canadian Rating" menus may be displayed sometimes between "Set Canadian Ratings French" and "Unrated". These menus are reserved for future use, as of February 2006.

US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

- ❒ **TV Y is Appropriate for All Children**
  Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.
- ❒ **TV Y7 is for Older Children**
  Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

- ❒ **TV G stands for General Audience**
  Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.
- ❒ **TV PG Parental Guidance Suggested**
  May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.
- ❒ **TV 14 Parents Strongly Cautioned**
  Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.
- ❒ **TV MA Mature Audiences Only**
  These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG

Initial Setup

Setting US V-Chip Ratings

Press the MENU button

▲▼ To "Initial Setup"

◀▶ To enter

▲▼ To "V-Chip"

◀▶ To operate (Password input screen will appear)

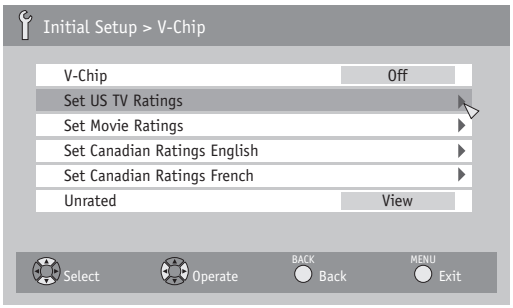
Enter the password by using the 10 button keypad

The V-Chip main screen will appear

◀▶ To turn V-Chip "On" or "Off"

▲▼ To move to "Set US TV Ratings"

◀▶ To operate



Directions to set US V-Chip Ratings

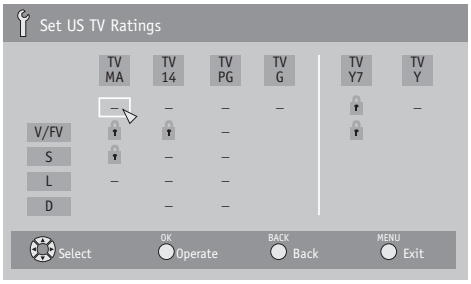
Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲▼ or ◀▶ to move the cursor to the correct location. Press OK to turn the locking feature on or off. An item is locked if the icon appears instead of a "—".

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

▲▼◀▶ To the TV 14 Column

Press the OK button to lock

Press the MENU button when finished



Note:

- If you want to change the setup, move the cursor to the top column and change the lock icon to "—" by pressing OK again. You may then select individual categories to block.

Movies Ratings

❒ **NR – Not Rated**
This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

❒ **G – General Audience**
In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

❒ **PG – Parental Guidance**
Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

❒ **PG-13 – Parents Strongly Cautioned**
Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

❒ **R – Restricted**
These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

❒ **NC-17 – No One Under 17**
These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

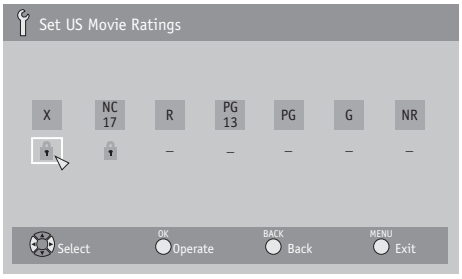
❒ **X – No One under 18**
Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings

Press the MENU button
▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "V-Chip"
◀▶ To operate (Password input screen will appear)
Enter the password by using the 10 button keypad
The V-Chip main screen will appear
◀▶ To turn V-Chip "On" or "Off"
▲▼ To "Set Movie Ratings"
◀▶ To enter movies menu

For example:
To block viewing of X and NC-17 rated from shows:

◀▶ To the X Column
Press the OK button to lock
◀▶ To the NC-17 Column
Press the OK button to lock
Press the MENU button to finish



Initial Setup

Canadian V-Chip Ratings

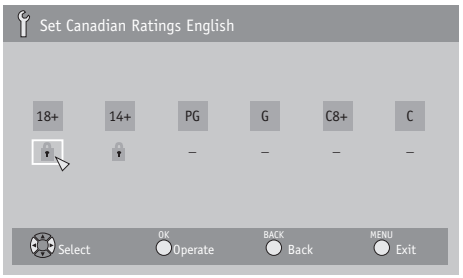
- **E – Exempt**
  Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- **C – Programming Intended for Children**
  Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.
- **C8+ – Programming Intended for Children 8 and Over**
  Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.
- **G – General Audience**
  Programming will contain little violence and will be sensitive to themes which could affect younger children.
- **PG – Parental Guidance**
  Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.
- **14+ – 14 Years and Older**
  Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.
- **18+ – Adult**
  Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings

Press the MENU button
▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "V-Chip"
◀▶ To operate (Password input screen will appear)
Enter the password by using the 10 button keypad

The V-Chip main screen will appear

◀▶ To turn V-Chip "On" or "Off"
▲▼ To "Set Canadian Ratings English"
◀▶ To enter ratings menu



For example:
To block viewing of programming rated 14+ and 18+:

◀▶ To the 18+ Column
Press the OK button to lock
◀▶ To the 14+ Column
Press the OK button to lock
Press the MENU button to finish

Note:
- For instructions on “Set Canadian Ratings Fre (in French)”, please see page 36 in the French side of this user’s guide.

Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the “Unrated Programming” category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

Note:

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to "Block".

Directions to Block Unrated Programs

You can block programs that are not rated.

Press the MENU button

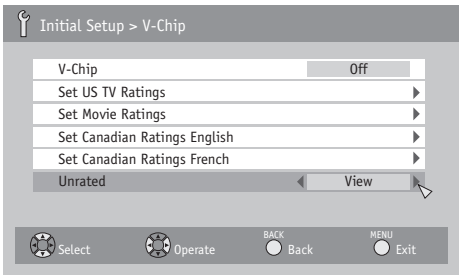
▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "V-Chip"
◀▶ To operate (Password input screen will appear)

Enter the password by using the 10 button keypad

The V-Chip main screen will appear

◀▶ To turn V-Chip "On" or "Off"
▲▼ To "Unrated"
◀▶ To "View" or "Block"

Press MENU when done



Initial Setup

Set Lock Code

Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes pre-set with a lock code of “0000”. You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.

Press the MENU button

▲▼ To "Initial Setup"

◀▶ To enter

▲▼ To "Set Lock Code"

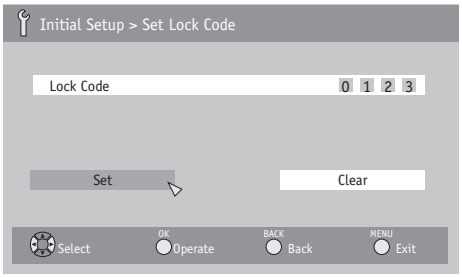
◀▶ To operate (Password input screen will appear)

Enter the password by using the 10 button keypad

The Set Lock Code screen will appear

To set the password, use the 10 button keypad

Press the OK button to finish (your lock code is now set)



When a viewer attempts to watch a blocked channel, this message appears:

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

This programming exceeds
your rating limits.
Please enter lock code
by 10 key pad to unlock it.
No. - - - -

Notes:

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.
If the wrong code is entered, the message "invalid lock code !” will flash on the screen.

The channel cannot be accessed until the correct code is entered.

This channel is locked
by channel guard.
Please enter lock code
by 10 key pad to unlock it.
No. - - - -

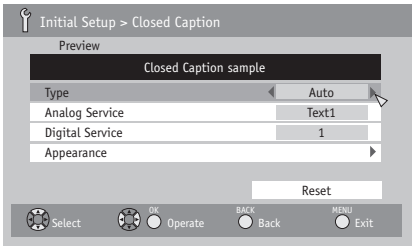
Notes:

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- See also “Set Lock Code”, page 38.

Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below.

Auto Setting



Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Closed Caption"
◀▶ To enter
▲▼ To "Type"
◀▶ To select Auto, Advanced or Basic

Auto: *Shows closed caption a priority for digital channels over analog channels. It is set automatically.*
Advanced: *Shows only the digital closed caption.*
Basic: *Shows only the analog closed caption.*

▲▼ To "Analog Service"
◀▶ To select a caption (CC1 to CC4) or text channel (Text1 to Text4)
▲▼ To "Digital Service"
◀▶ To select 1, 2, 3, 4, 5 or 6
▲▼ To Appearance
◀▶ To enter
◀▶ To select "Auto" ("Manual", see page 40)
Press the MENU button when finished

Notes:
- If you want to reset your settings to the default settings, select "Reset".
- If you select "Advanced" for Type, you cannot select "Analog Service".
- If you select "Basic" for Type, you cannot select "Digital Service" and "Appearance".
- **"Type", "Digital Service" and "Appearance" are for digital broadcasting. It has no effect for analog broadcasting.**

Initial Setup

Manual Setting

◀▶ To select "Manual" for Appearance Mode

▲▼ To "Font Size", "Font Style", "Text/Edge Opacity", "Background Opacity", "Text Color", "Edge Color" or "Backgrond Color".

◀▶ To select the setting you like

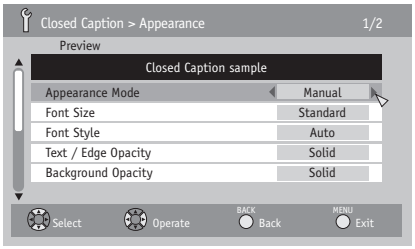
Font Size: Auto, Standard, Large or Small

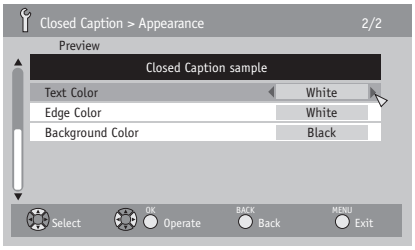
Font Style: Auto, SerifMono, Serif, SanSerifMono, SanSerif, Casual, Cursive or SmallCapital

Text/Edge Opacity, Background Opacity: Auto, Transparent, Translucent, Solid, Flashing.

Text Color, Edge Color, Background Color: Auto, White, Black, Red, Green, Blue, Yellow, Magenta, or Cyan

Press the MENU button when finished





All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

Notes:

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 59.
- When ZOOM aspects like PANORAMA or CINEMA are selected, Digital Closed Captions may be cut off or distorted.

Initial Setup

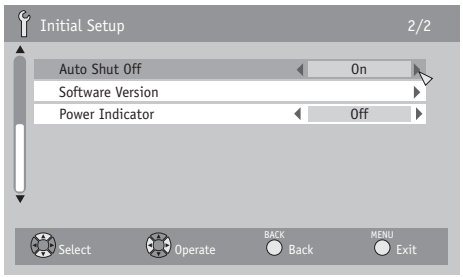
Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel the TV is on.

Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Auto Shut Off"
◀▶ To turn "On" or "Off"

Press the MENU button when finished



- If the channel that you have on does not receive a signal for more than one minute, the blinking text “No Program or Weak Signal Auto shut off in 9 min.” appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.

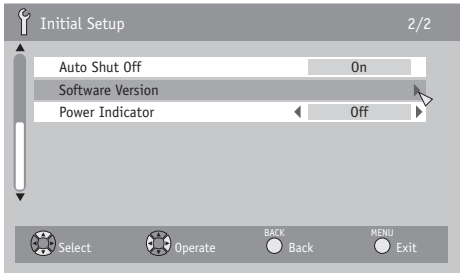
Software Version

You can confirm the Software Version.

Press the MENU button

▲▼ To "Initial Setup"
◀▶ To enter
▲▼ To "Software Version"
◀▶ To enter
◀▶ Select close when you are finished confirming your software version

Press the MENU button when finished



Power Indicator

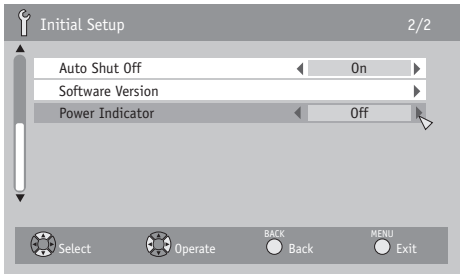
Power indicator allows you to adjust the brightness of the power indicator

Press the MENU button

▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To Power Indicator
◀▶ To adjust POWER INDICATOR LOW, HIGH or OFF

Note:

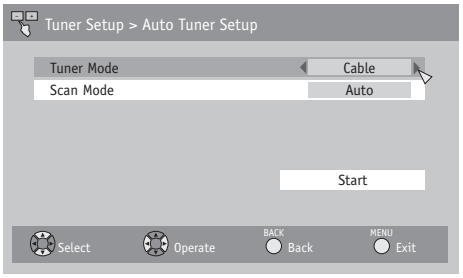
- If you set a timer on the TV, the power indicator will light even if the TV is on stand by.



Tuner Setup

Auto Tuner Setup

The auto tuner setup function is described on page 23 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.



Press the MENU button
▲▼ To "Tuner Setup"
◀▶ To enter
▲▼ To "Auto Tuner Setup"
◀▶ To enter
◀▶ To choose "Cable" or "Air"
▲▼ To "Scan Mode"
◀▶ To choose "Auto", "STD", "HRC" or "IRC"
▼ To "Start"
Press the OK button (Programming will take serveral minutes)

The auto tuner is finished when the message **"Programming Over !"** appears onscreen.

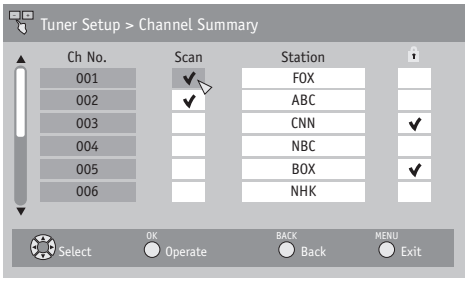
Press the MENU button when finished

Notes:
- When the Tuner Mode is set to "Cable", it is possible to select "Scan Mode"
- If no channels were found using Auto Tuner Setup, check your antenna cable and the settings for Tuner Mode/Scan Mode.

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 191 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.

Press the MENU button
▲▼ To "Tuner Setup"
◀▶ To enter
▲▼ To "Channel Summary"
◀▶ To operate



The Channel summary screen will now be displayed with the channels set to scan marked with an "√". Regarding analog channels, you can delete channels from the scan by removing the "√". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "√" next to the channel number.

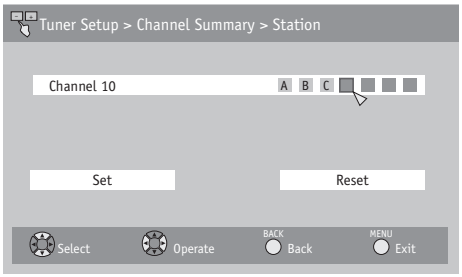
- Digital channels can not be added to the channel summary if the auto tuner setup did not find them.

▲▼◀▶ To the "Scan" column
Press the OK button to include or delete from scan
Press the MENU button when finished

Note:
- The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now had disappeared, the lock channel or scanned channel by the channel summary for that channel will be cancelled.

Tuner Setup

How to set the channel station.



Press the MENU button

▲▼ To "Tuner Setup"

◀▶ To enter

▲▼ To "Channel Summary"

◀▶ To operate

▲▼ To "Station"

Press the OK button to enter

◀▶ To select the character you want

▲▼ To move to the next space

...continue to follow these directions for all seven spaces

▼ To "Set"

Press the OK button

Your characters are now set

Press the MENU button when finished

If you want to reset the characters you set:

Press the MENU button

▲▼ To "Tuner Setup"

◀▶ To enter

▲▼ To "Channel Summary"

◀▶ To operate

▲▼ To "Station"

Press the OK button to enter

▲▼ To select "Reset"

Press the OK button to finish

Your characters are now reset

Notes:

- You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 500 channel labels.
- If you try to set more than the 500 maximum, the message "Memory Overflow" will appear.

You can block access to a channel by activating the channel lock.

Press the MENU button

▲▼ To "Tuner Setup"

◀▶ To enter

▲▼ To "Channel Summary"

◀▶ To operate

▲▼◀▶ To the Lock Column (🔒)

Press the OK button to lock or unlock that channel

Press the MENU button when finished

Tuner Setup

Find Channel

Add a channel that does not exist in the channel map.

Press the MENU button

▲▼ To "Tuner Setup"

◀▶ To enter

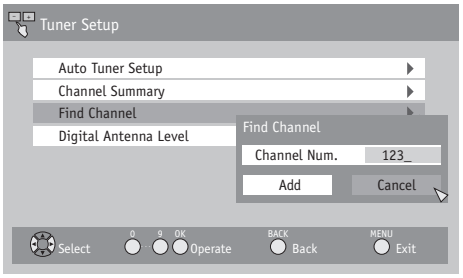
▲▼ To "Find Channel"

◀▶ To enter

Add a channel using 0 to 9

▼ To "Add"

Press the OK button to finish



Digital Antenna Level

Confirms the present antenna level.

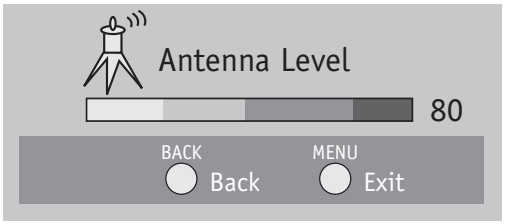
Press the MENU button

▲▼ To "Tuner Setup"

◀▶ To enter

▲▼ To "Digital Antenna Level"

◀▶ To enter



Note:

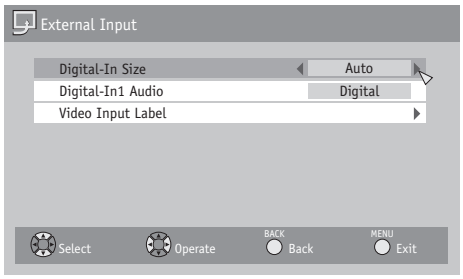
- If you are watching an analog channel, antenna level will not appear.

External Input

Digital-In Size

The DIGITAL-IN option can only be displayed in the External Input menu when an HDMI480p picture signal is being input to the DIGITAL-IN terminal. This option adjusts the position when an HDMI or DVI 480p picture signal is being displayed on the screen. There are two types of HDMI480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting either Auto, Size1 or Size2.

Press the MENU button
▲▼ To "External Input"
◀▶ To enter
▲▼ To "Digital-In Size"
◀▶ To enter
▲▼ To select "Auto", "Size1" or "Size2"
Press the MENU button to finish

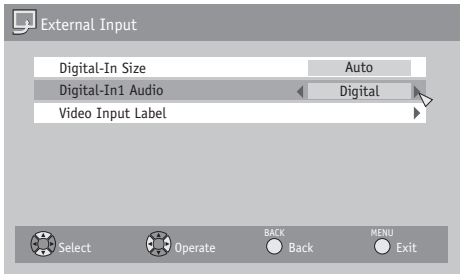


Notes:
- The Digital-In Size menu can only be displayed when a HDMI or DVI 480p picture signal is input to the Digital-In terminal and the picture is being displayed on the screen.
- You can select "Auto" only when the signal is 480p for HDMI. When you select "Auto", the television will select "Size1" or "Size2" automatically.

Digital-In1 Audio

This feature is used if you have a DTV or HDMI compatible component connected to your TV.

Press the MENU button
▲▼ To "External Input"
◀▶ To enter
▲▼ To "Digital-In1 Audio"
◀▶ To select "Analog", "Digital" or "Auto"
Press the Menu button when finished



Notes:
- If your DTV or HDMI component is capable of digital audio and video, choose "Digital". If your DTV or HDMI component is capable of analog audio and digital video, choose "Analog".
- Refer to your DTV or HDMI component's instruction manual for more information.
- When you select "Auto", the television will select "Analog" or "Digital" automatically, depending on the audio input from the HDMI.
- When you select "Digital", select PCM on Optical Out in Sound Adjust menu. See page 52.
- When you want to use analog audio, connect audio cables into Video-3 input jacks.

External Input

Video Input Label

This function is used to label video input connections for the onscreen displays.

Press the MENU button

▲▼ To "External Input"

◀▶ To enter

▲▼ To "Video Input Label"

◀▶ To operate

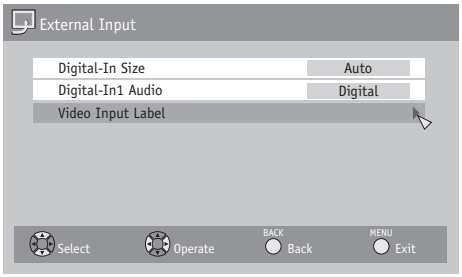
▲▼ To select the desired video input

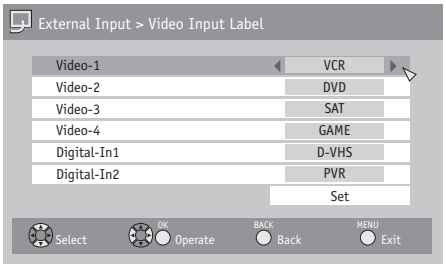
◀▶ To select the desired preset input label (see chart below)

▼ To "Set"

Press the OK button to save

Press the MENU button when finished





Preset Labels	Select when...
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
PVR	You have a Personal Video recorder connected to the video input
D-VHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Picture Adjust

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

Tint
Tint allows you to adjust the levels of red and green in your TV picture.

Color
The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

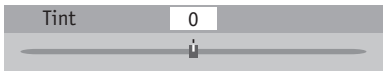
Picture
Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

Bright
You can adjust the overall brightness of the TV picture with the Bright control.

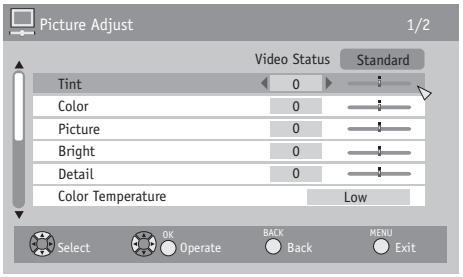
Detail
The Detail feature adjusts the level of fine detail displayed in the picture.

Adjust the Picture Settings

Press the MENU button
▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To "Tint", "Color", "Picture", "Bright" or "Detail"
◀ ▶ To enter



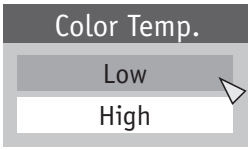
◀ ▶ To adjust the setting
▲▼ To move to the next setting
Press the MENU button when finished



Color Temperature

You can decide how strong or dull the colors appear on the TV screen.

Press the MENU button
▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To "Color Temperature"
◀▶ To enter
▲▼ To set "Low" or "High"
Press the MENU button when finished



Note:
- If you are receiving a 1080i or 720p digital channel in it's original format, you can adjust the Picture Settings and Color Temperature independently from all the other channels.

Picture Adjust

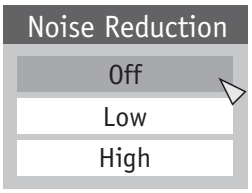
Noise Reduction

With Noise Reduction, this helps take our static or noise from a channel that may not be coming in clearly.

Press the MENU button

▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To "Noise Reduction"
◀▶ To enter
▲▼ To select the mode “Low”, “High” or “Off”

Press the MENU button when finished



Note:
- This function only works for 480i signal only.

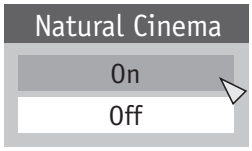
Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, choose "Natural Cinema" and set it to "On". Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.

Press the MENU button

▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To "Natural Cinema"
◀▶ To enter
▲▼ To select the mode "On" or "Off”

Press the MENU button when finished

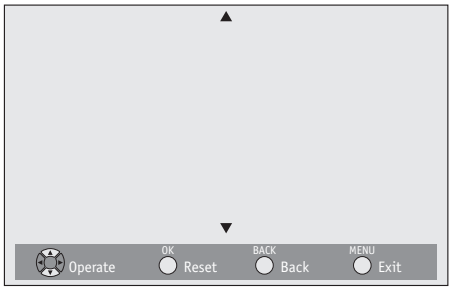


Picture Adjust

Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama or cinema.

Press the MENU button
▲▼ To "Picture Adjust"
◀▶ To enter
▲▼ To Position Adjustment
◀▶ To enter
▲▼ To adjust the position
Press the MENU button to finish



Notes:

- To reset the adjustment to the center, press the OK button.
- When the arrow disappears, while you are adjusting the position, the position is at it's maximum limit.
- If you select regular size or full with aspect, position adjustment option is not seen.
- When you change the screen size, perform the position adjustment again.
- Position adjustment allows you to adjust the screen position vertically when the aspect is set Panorama Zoom or Cinema Zoom for 1080i and 720p signals.

Picture Adjust

Adjusting CRT Color Convergence

This TV has three color projection tubes: one for red, green, and blue. When mixed together in the proper portions, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The produce of aligning these picture beams is called “convergence”.

Attention:

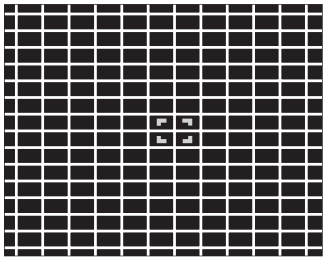
- Please have your TV on for at least 20 minutes before using this feature.
- This adjustment will be needed only when the colors of the characters/lines are separated and lack in distinction. If not, please don’t perform the adjustment.

Colors may become separated after the TV has been moved, or over a long period of time if regularly subjected to low levels of vibrations. If the colors become separated, please perform the adjustments below again.

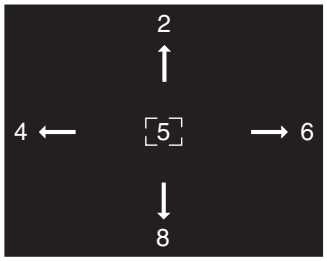
Manual

Press the MENU button

▲▼ To "Picture Adjust"
◀▶ To Enter
▲▼ To CONVERGENCE
◀▶ To Enter
▲▼ To choose MANUAL
◀▶ To Enter



If all the lines are white, no convergence adjustment is necessary. If not, you need to perform the manual color convergence below.



Select the location you want to adjust by using the number buttons on the remote control.
You can select any of the 81 points.

Press the SLEEP button to change the color of the box to the color of the cross you wish to adjust (red or blue).

▲▼◀▶ Adjust the position of the cross.

Adjust the three color crosses until they overlap and appear as a single white cross.

Press the OK button

Notes:

- When you adjust the convergence, make sure you start with the center position (position 5), and work your way around radially for best results.
- When you make the adjustment in the center (position 5), you are making the adjustment for the whole screen. In other positions, you are making the adjustment only in that area.
- You can reset the adjustment if you do not like the results.

Picture Adjust

Reset

Reset resets all picture adjustments at once to the default settings.

Press the MENU button

▲▼ To "Picture Adjust"

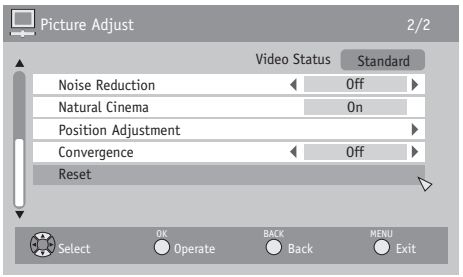
◀▶ To enter

▲▼ To "Reset"

Press the OK button

The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments.

Press the MENU button when finished



Sound Adjust

Sound Settings

These settings allow you to change and adjust the sound on your television.

Bass – You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.

Treble – Use treble to adjust the level of high-frequency sound in your TV's audio.

Balance – Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings

Press the MENU button

▲▼ To "Sound Adjust"

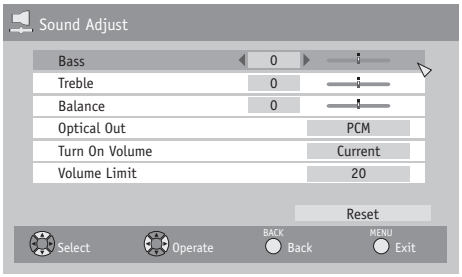
◀▶ To enter

▲▼ To "Bass", "Treble" or "Balance"

◀ ▶ To adjust the setting

▲▼ To move to the next setting

Press the MENU button when finished



Notes:

- You can reset all sound adjustments you set at once as the default setting when you select reset. See page 51.

Optical Out

You can select the optical digital sound output, either PCM or Dolby Digital when your TV is connected to an amplifier that has Dolby Digital decoder. If you select Dolby Digital, you can enjoy listening in 5.1ch sound when watching digital broadcasts.

Press the MENU button

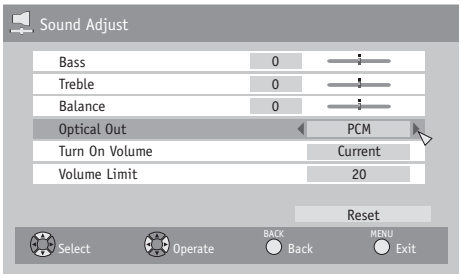
▲▼ To "Sound Adjust"

◀▶ To enter

▲▼ To "Optical Out"

◀▶ To select "PCM" or "DOLBY DIGITAL"

Press the MENU button when finished



Notes:

- If your amplifier does not have Dolby Digital decoder, select PCM. If you don't select PCM, it cannot output the sound from the speakers.
- For connecting an amplifier using the optical output, see page 17.

DOLBY DIGITAL

Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

Sound Adjust

Turn On Volume

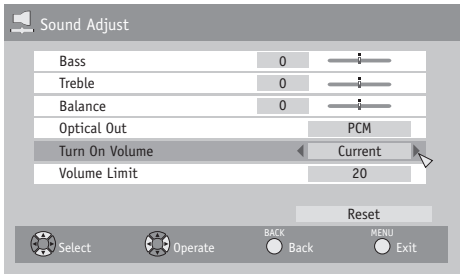
Turn On Volume allows you to set the volume level when you turn the TV on.

Press the MENU button

▲▼ To "Sound Adjust"
◀▶ To enter
▲▼ To "Turn On Volume"
◀▶ To set the volume level

→ Current ⟷ 0 ⟷ 1 ⟷ 2 ⟷ 3 - - - - - - - → 48 ⟷ 49 ⟷ 50 ←

Press the MENU button to finish



Volume Limit

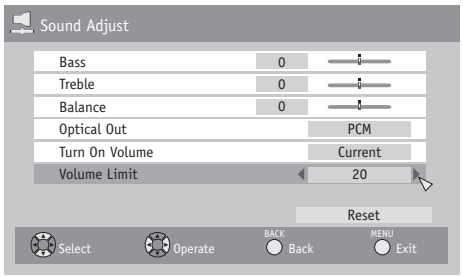
Volume Limit allows you to set the maximum volume level.

Press the MENU button

▲▼ To "Sound Adjust"
◀▶ To enter
▲▼ To "Volume Limit"
◀▶ To set the maximum volume level

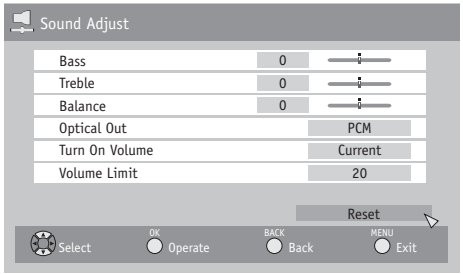
0 ⟷ 1 ⟷ 2 ⟷ 3 ← - - - - - - - → 48 ⟷ 49 ⟷ 50

Press the MENU button to finish



Reset

Reset resets all Sound Adjustments at once to the default settings. See page 51 on how to use reset.



Clock/Timers

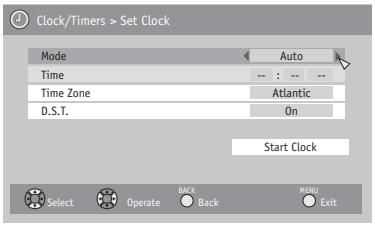
Set Clock

The set clock function is described on page 22 as the interactive plug-in menu. You can choose to set the clock automatically, or manually. If you need to set the clock again, follow the steps below.

Press the MENU button
▲▼ To "Clock/Timers"
◀▶ To enter
▲▼ To "Set Clock"
◀▶ To operate

When you set the clock automatically, choose "Auto" by pressing the ◀ or ▶ arrows.

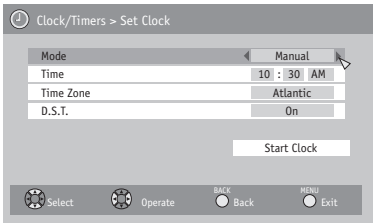
▲▼ To Time Zone
◀▶ To select your time zone



▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. On or Off
▼ To "Start Clock"
Press the OK button
Press the MENU button when finished

When you set the clock manually, choose "Manual" by pressing the ◀ or ▶ arrows.

▲▼ To move to the hour
◀▶ To set the hour
▲▼ To move to minutes
◀▶ To set the minutes
▲▼ To Time Zone
◀▶ To select your time zone:
(Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)



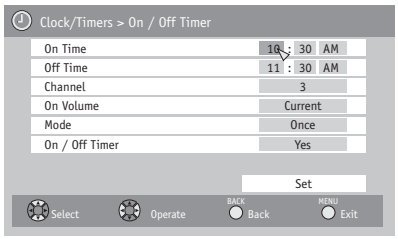
▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. On or Off
▼ To "Start Clock"
Press the OK button
"Thank you !" will be displayed.
Press the MENU button when finished

Notes:
- D.S.T. can be used only for US and Canada when it is set to "On" in the "Set Clock" menu.
- Only when the "Mode" set to "Auto", the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Clock/Timers

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



- Press the MENU button
- ▲▼ To "Clock/Timers"
- ◀▶ To enter
- ▲▼ To "On/Off Timer"
- ◀▶ To operate (begins with "On Time")
- ◀▶ To set the hour (AM/PM) you want the TV to turn on
- ▼ To move to minutes
- ◀▶ To set the minutes
- ▼ To accept "On Time" and move to "Off Time" (the time the TV will turn off). Set the "Off Time" the same way as "On Time"
- ▼ To accept "Off Time" and move to "Channel"
- ◀▶ To select channel
- ▼ To "On Volume"
- ◀▶ To set the volume level
- ▼ To move to "Mode"
- ◀▶ Choose "Once" or "Everyday"
- ▼ To "On/Off Timer"
- ◀▶ Choose "Yes" to accept the timer setting, choose "No" if you don't wish to accept
- ▼ To "Set"
- Press the OK button
- Press the MENU button to exit the menu

Notes:

- The on/off time cannot be set to locked or guarded channels.
- In order for the on/off timer to work, the clock must be set.
- After a power interruption, the timer settings must be reset.
- If your clock is not set, "Please set clock first !" will appear on the screen. Please see Manual Set Clock on page 54 to set the clock.

Button Functions

Power

Turns the TV on or off.

Press the POWER button

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:

0 (ZERO)

1 (ONE)

2 (TWO)

Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:

1 (ONE)

2 (TWO)

Press the TUNE button

Input

Selects the signal input source for the television: Video-1, 2, 3, 4, Digital-In1 or Digital-In2 for video devices like VCR's DVD players, or camcorders.

Press the INPUT button

By every press of the INPUT button, you can change the input mode.

Notes:

- When you return to TV mode, press the RETURN+/TV button or direct 10 key pad.
- You can also access the "Front Menu" screen by using the MENU button on the side of the TV instead of the remote control. It has "Input", "Video Status" and "Aspect" menus. Choose "Input" by pressing Menu ▼ on the side panel and choose a mode by using the CHANNEL+/- buttons (◀ OPERATE ▶).

Channel +/–

Use these buttons to move up or down all the available channels your TV is able to receive, and navigate in the menus.

Volume +/–

Use these buttons to raise or lower the TV's volume level, and navigate in the menus. The maximum is the level you set in Volume Limit. See page 53.

Button Functions

Return +/TV

The Return+/TV button has two functions:

Return - Returns to the channel viewed just before the channel currently onscreen.

Return+ - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH– buttons.

RETURN+/TV and hold for three seconds

Return Channel (123-456)
Programmed !

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/- buttons.

RETURN+/TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+/TV button for three seconds. The message “Return Channel Cancelled !” will appear.

Sound

By pressing the SOUND button, you can change the A.H.S. (Advanced Hyper Surround) and SMART SOUND on or off.

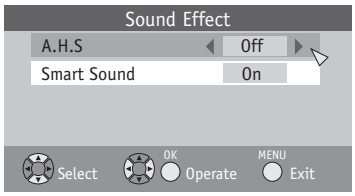
A.H.S. - Adds a more spacious surround sound. Music gives basic effect and movie for more effect.

Smart Sound - Decreases high sound levels, giving a regulated sound level.

Press the SOUND button

▲▼ To select "A.H.S." or "Smart Sound"
◀▶ To choose the setting

Press the MENU when finished



Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

Button Functions

Video Status

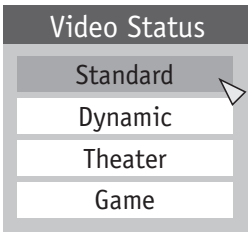
The Video Status button gives you a choice of four TV picture display settings, including a display of your own preferences.

Standard - Resets the picture display to the factory settings.

Dynamic - Gives a vivid picture with better contrast when viewing in a brightly lit room.

Theater - Gives a rich, film-like look to video when viewing in a dimly lit room.

Game - Used for when you are playing video games connected to your TV.



Press the VIDEO STATUS button
By every press of the VIDEO STATUS *button, you change the mode.*

Note:

- You can also change the mode by pressing the ▲▼ buttons.
- You can also access the "Front Menu" screen by using the MENU button on the side of the TV instead of the remote control. It has "Input", "Video Status" and "Aspect" menus. Choose "Video Status" by pressing Menu ▼ on the side panel and choose a mode by using the CHANNEL+/- buttons (◀ OPERATE ▶).

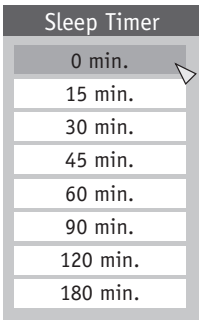
TheaterPro D6500K

The TheaterPro D6500K color temperature technology function makes sure that the video you watch is set to the standard color temperature, so that what you see is as true to what the film to video editors intended it to be.

Press the THEATER PRO button

Sleep Timer

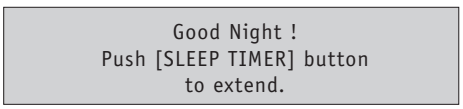
The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work for a total time of up to 180 minutes. When you press the SLEEP TIMER button once, the rest of the time will be displayed.



Press the SLEEP TIMER button twice

By every press of the SLEEP TIMER *button, you select the time for the timer to shut off*

60 seconds before the automatic shut off, this message will appear:



You then have 60 seconds to press the SLEEP TIMER button to delay the shut off.

Note:

- You can also select the timer by pressing the ▲▼ buttons.

Button Functions

Display

The display screen shows the current information as follows.

Press the DISPLAY button

Detailed mode → Clock Mode → Simple Mode → Off

- **Detailed Mode** - Shows the channel, channel name, signal, rating information, current time, digital antenna level and scramble information, as well as the current time below.

- **Clock Mode** - Shows the current time. 10:15PM
- **Simple Mode** - Shows the current channel and channel name or AV input.

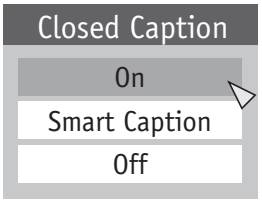
- **Off** - Turns the display off.

Notes:
- You may also turn off the display at any step by pressing MENU.
- If the clock is not set, "Clock Not Set" will be displayed.
- A signal being shown in Detailed Mode, will only show the kind of input and video signal you are receiving. However, the actual signal type you see will be different. This TV converts all signals to the 1080i format.

C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.

Press the C.C. button



Notes:
- Smart Caption will appear when you press the Muting button, only on channels where the broadcast contains closed captioning.
- When you select "On", it will be the mode selected in the Closed Caption Menu.
- See page 39 when you set the caption/text mode.
- You can also change the mode by pressing the ▲▼ buttons.

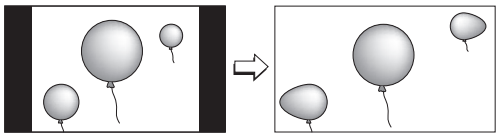
Button Functions

Aspect

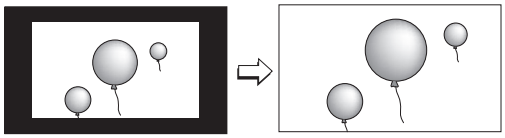
This feature will help you adjust the picture you are watching to give you the best possible picture quality.

Aspect Ratios

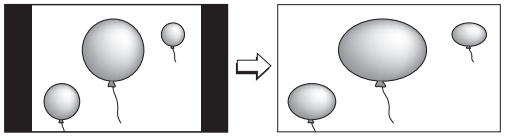
PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.



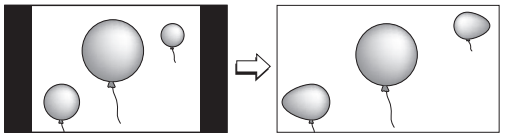
CINEMA - This ratio “zooms in” on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.



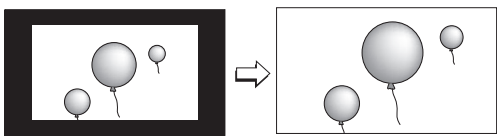
FULL - This is the ratio to use when watching 16:9 High-Definition broadcasts.



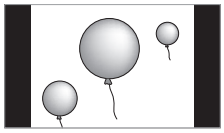
PANORAMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.



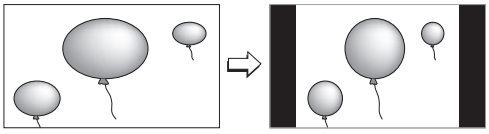
CINEMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.



REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while black bars will appear to fill up the remaining space along the picture’s sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.



SLIM - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Black side bars will appear.



Button Functions

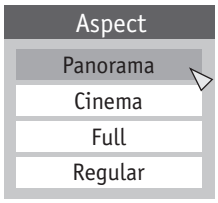
Aspect Ratios (Continued)

Press the ASPECT button

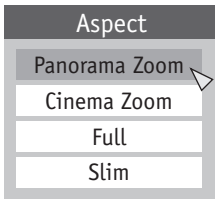
- *By pressing the ASPECT button, you can change the size.*

When you change the aspect ratios, it is different from their broadcast or recorded program.

Receiving 4:3 signal



Receiving 16:9 signal



Notes:

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the "Front Menu" screen by using the MENU button on the side of the TV instead of the remote control. It has "Input", "Video Status" and "Aspect" menus. Choose "Aspect" by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶).
- If the televison receives a 16:9 signal from your HDMI device, the aspect mode will turn to "Full" automatically. If the television receives a 4:3 signal from your HDMI device when you are in "Full" aspect mode, it will return to "Regular" aspect mode. If you change the aspect mode after the television changed it to "Full" automatically, the television will change to the aspect mode you choosed.

Button Functions

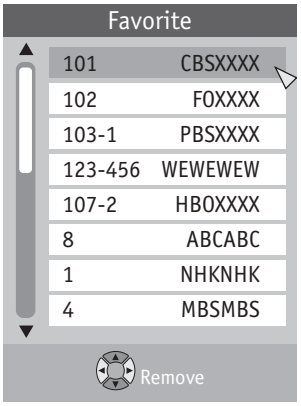
Favorite

The Favorite button allows you to select your favorite channels easily. First, you must register the channels that you like. See how to register below.

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to watch

Press the OK button
It will change to the channel you have selected.



Register the favorite channel

Press the channel number you want to register
The channel program will change.

Press the FAVORITE button for three seconds
The channel will be registered in the favorite channel list.

Notes:
- The maximum number of channels you can register is 24.
- If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.

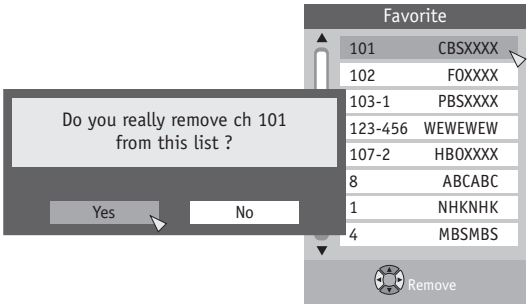
Delete the favorite channel

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to delete
◀▶ To enter
The screen to the right will appear.

◀▶ To "Yes"
Press the OK button
The channel was deleted.

Press the FAVORITE button when finished



Button Functions

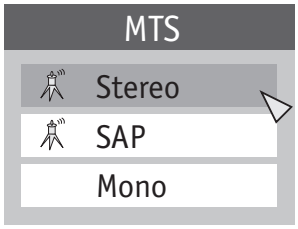
ML/MTS

ML/MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP). When you are receiving a digital broadcast, it is possible to choose a language that you wish to receive.

When receiving ANALOG broadcast

Press the ML/MTS button

By every press of the ML/MTS button, you change the mode



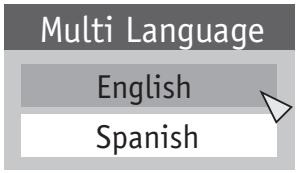
Notes:

- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.
- MTS unavailable if your television's Input source is in Video-1, 2, 3, 4, Digital-In1, or Digital-In2 mode, as described on page 56.
- You can also change the mode by pressing the ▲▼ buttons.

When receiving DIGITAL broadcast

Press the ML/MTS button

By every press of the ML/MTS button, you change the language



Menu

The Menu button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system. When a menu is displayed, press the MENU button to exit the menu system.

- See individual topics like "Sound Adjust" for specific information on using menus.

OK

This button confirms your selection when you are in one of the onscreen menus.

Back

This button allows you to go back in the menu to change a selection or correct a mistake.

Button Functions

Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the SUB button, you can select a sub channel easily.

For example, to move to sub channel 123-45:

Press 1, 2 and 3 in order

Press the SUB CH button

Press 4 and 5 in order

Press the TUNE button

Note:
- If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the OK button.

Guide

You can view the program information from the GUIDE.

Notes:
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 54.
- When the program information is not being broadcasted, it will not show the correct information.

Button Functions

TV/CATV Slide Switch

Use either the television's own tuner or a cable box to select channels. Set this switch to **TV** to operate the television's built-in tuner. Move the switch to **CATV** to operate a cable box.

Note:

- See page 24 for information on programming your remote for cable box operation.

VCR/DVD Slide Switch

You can control a VCR or DVD player with the buttons on the lower part of the remote control. Move the slide switch to **VCR** or **DVD** to operate.

Notes:

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 25.
- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 26.

VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: play, record, rewind, fast-forward, stop, pause, channel scan, TV/VCR, power on, and power off.

Move the selector switch to **VCR** to operate.

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 25.

DVD Buttons

You can also use this remote control to operate the basic functions of your DVD player. These functions include: play, rewind, fast-forward, stop, still/pause, previous/next, tray open/close, power on, and power off.

Move the selector switch to **DVD** to operate.

- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 26.

Troubleshooting

PROBLEMS	CHECK
There is no power	• See if the power cord became unplugged. • Check for a blown fuse or circuit breaker or a power outage.
There is no picture or sound	• The antenna could be disconnected. • The input mode could be set improperly. See page 56. • The tuner (Auto Tuner Setup) could be set improperly. See page 42. • The TV station may be having difficulties. Check to see if other stations are working. • Use the HDMI cable with HDMI logo HDMI. See page 19. • You can not output audio using the OPTICAL OUTPUT when you have digital sound from an HDMI device connected the the HDMI 1 or HDMI 2 connection on the back of your TV. (See page 19).
Remote control is not operating properly or at all	• Check to see that the batteries are still working and properly installed. • Make sure the remote has a clear sight path to the TV. • Check that the TV/CATV switch is in the proper position. • You may be too far from the TV. You must be within 23 feet (7 meters).
You cannot select a certain channel	• Make sure the channels have been programmed. See "Channel Summary", page 42. • Check to see if the channel is locked. See "Channel Summary - Lock" page 43.
The power turns off by itself	• Make sure the set did not become unplugged. • Perhaps the On/Off Timer is set. See page 55. • Check to see if the Sleep Timer was set. See page 58.
The clock is wrong	• The power was interrupted and the clock was not reset. See page 54.
The color quality is poor	• Tint and Color may be improperly adjusted. See page 47. • The Video Status mode may be turned to the wrong setting. See page 58.
There are lines across the picture	• There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.
The picture is spotted	• There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.
There are double pictures (ghosts)	• A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.
Picture is snowy (image noise)	• Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it.
Screen is 40% black	• The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 39.
Stereo or bilingual programs can't be heard	• Make sure the MTS settings are correct. See page 63.
Static electricity	• It is normal to feel static electricity if you brush or touch the screen.
You hear occasional crackling sounds	• It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.

OSD Information

Weak Signal

This OSD warning appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.

Audio / Data Only Channel

This OSD appears when the selected channel is not broadcasting any picture or sound, or is only broadcasting data information.

Specifications

Model	AV-48P777 AV-48P787	AV-56P777 AV-56P787
Type	Rear Projection Television	
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable	
Reception Range	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.	
Power Source	AC 120V, 60 Hz	
Power Consumption	240W	
Screen Size	48 inch / 122 cm measured diagonally, 16:9 ratio	56 inch / 142 cm measured diagonally, 16:9 ratio
Speakers	13 cm round X 2	
Audio Output	Full Range - 7W + 7W	
Antenna Terminal (VHF/UHF, ATSC/DIGITAL CABLE IN)	75 ohms (VHF/UHF)(F-type connector)	
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms high impedance	
Component Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p 75 ohms	
S-Video Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms	
Audio Output Jacks (FIX)	500mVrms low impedance	
Optical Output Digital Audio	Digital Out (optical) x 1	
Digital–In	HDMI jack x 2 Note: The Digital–In terminal is not compatible with picture signals of a personal computer	
Dimensions (inch) W X H X D (cm)	47 1/4 x 46 7/8 x 24 1/2 120 x 118.9 x 62.2	53 7/8 x 51 1/8 x 26 3/8 136.8 x 129.6 x 66.7
Weight (lbs / kg)	170 / 77	184 / 83.5
Accessories	remote control unit x 1 / AA batteries X 2	

Specifications subject to change without notice.

Notes:

- Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/06_AtscQam/download.html

JVC®

LIMITED WARRANTY

COLOR TV 1-1

For Canadian model televisions, see separate sheets for Canadian Warranty information.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
FOR DIRECT-VIEW COLOR TELEVISION, PICTURE TUBE is covered for Two(2)years.

Parts	Labor
1 YEAR	**1 YEAR**

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
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Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51011-8
(0504)

Notes

JVC COMPANY OF AMERICA
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Wayne, New Jersey, 07470

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